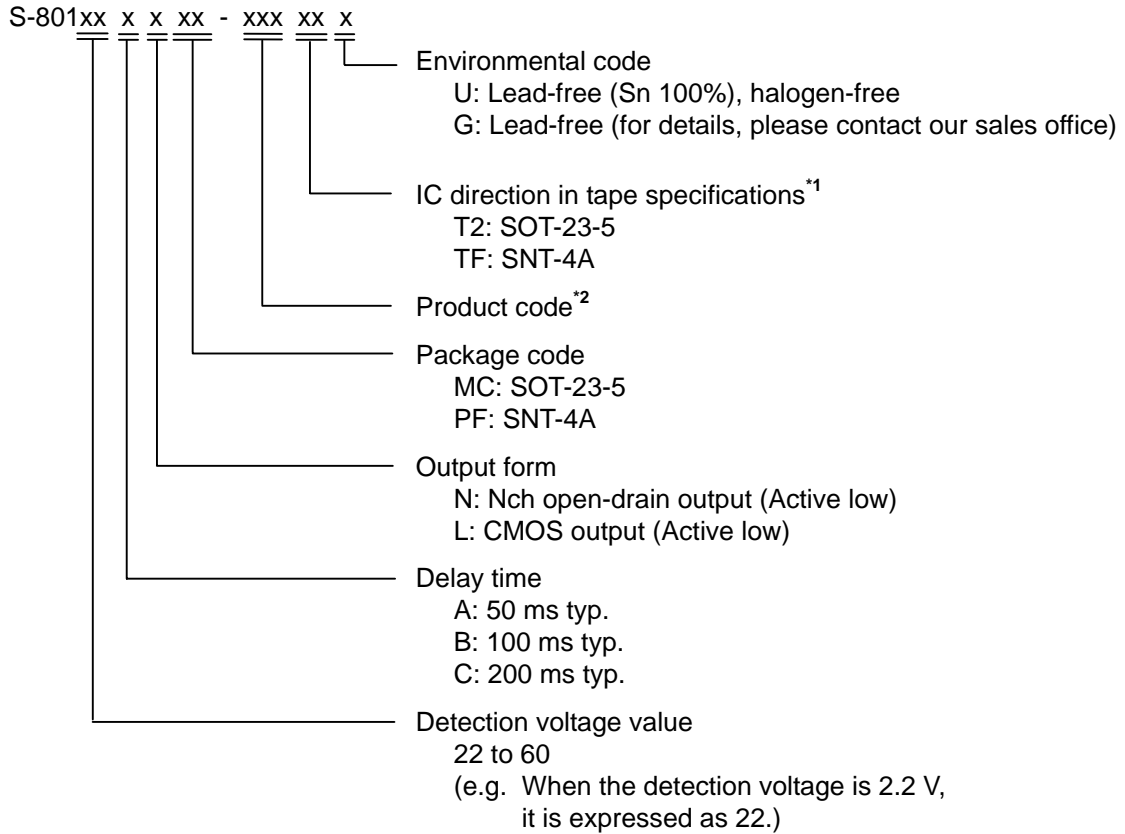


■ **Product Name Structure**

The detection voltage, delay time, output form and packages for S-801 Series can be selected at the user's request. Refer to the "1. **Product name**" for the construction of the product name, "2. **Package**" regarding the package drawings and "3. **Product Name List**" for the full product names.

1. Product Name



*1. Refer to the taping specifications at the end this book.

*2. Refer to the **Table 2** in the "3. **Product name list**".

2. Package

Package name	Drawing code			
	Package	Tape	Reel	Land
SOT-23-5	MP005-A-P-SD	MP005-A-C-SD	MP005-A-R-SD	—
SNT-4A	PF004-A-P-SD	PF004-A-C-SD	PF004-A-R-SD	PF004-A-L-SD

3. Product Name List

3-1. SOT-23-5

Table 1 (1/3)

Detection voltage range	Delay time	Nch open-drain output products	CMOS output products
2.2 V ±2.0%	50 ms typ.	S-80122ANMC-JCHT2x	S-80122ALMC-JAHT2x
	100 ms typ.	S-80122BNMC-JGHT2x	S-80122BLMC-JEHT2x
	200 ms typ.	S-80122CNMC-JKHT2x	S-80122CLMC-JIHT2x
2.3 V ±2.0%	50 ms typ.	S-80123ANMC-JCIT2x	S-80123ALMC-JAIT2x
	100 ms typ.	S-80123BNMC-JGIT2x	S-80123BLMC-JEIT2x
	200 ms typ.	S-80123CNMC-JKIT2x	S-80123CLMC-JIIT2x
2.4 V ±2.0%	50 ms typ.	S-80124ANMC-JCJT2x	S-80124ALMC-JAJT2x
	100 ms typ.	S-80124BNMC-JGJT2x	S-80124BLMC-JEJT2x
	200 ms typ.	S-80124CNMC-JKJT2x	S-80124CLMC-JIJT2x
2.5 V ±2.0%	50 ms typ.	S-80125ANMC-JCKT2x	S-80125ALMC-JAKT2x
	100 ms typ.	S-80125BNMC-JGKT2x	S-80125BLMC-JEKT2x
	200 ms typ.	S-80125CNMC-JKKT2x	S-80125CLMC-JIKT2x
2.6 V ±2.0%	50 ms typ.	S-80126ANMC-JCLT2x	S-80126ALMC-JALT2x
	100 ms typ.	S-80126BNMC-JGLT2x	S-80126BLMC-JELT2x
	200 ms typ.	S-80126CNMC-JKLT2x	S-80126CLMC-JILT2x
2.7 V ±2.0%	50 ms typ.	S-80127ANMC-JCMT2x	S-80127ALMC-JAMT2x
	100 ms typ.	S-80127BNMC-JGMT2x	S-80127BLMC-JEMT2x
	200 ms typ.	S-80127CNMC-JKMT2x	S-80127CLMC-JIMT2x
2.8 V ±2.0%	50 ms typ.	S-80128ANMC-JCNT2x	S-80128ALMC-JANT2x
	100 ms typ.	S-80128BNMC-JGNT2x	S-80128BLMC-JENT2x
	200 ms typ.	S-80128CNMC-JKNT2x	S-80128CLMC-JINT2x
2.9 V ±2.0%	50 ms typ.	S-80129ANMC-JCOT2x	S-80129ALMC-JAOT2x
	100 ms typ.	S-80129BNMC-JGOT2x	S-80129BLMC-JEOT2x
	200 ms typ.	S-80129CNMC-JKOT2x	S-80129CLMC-JIOT2x
3.0 V ±2.0%	50 ms typ.	S-80130ANMC-JCPT2x	S-80130ALMC-JAPT2x
	100 ms typ.	S-80130BNMC-JGPT2x	S-80130BLMC-JEPT2x
	200 ms typ.	S-80130CNMC-JKPT2x	S-80130CLMC-JIPT2x
3.1 V ±2.0%	50 ms typ.	S-80131ANMC-JCQT2x	S-80131ALMC-JAQT2x
	100 ms typ.	S-80131BNMC-JGQT2x	S-80131BLMC-JEQT2x
	200 ms typ.	S-80131CNMC-JKQT2x	S-80131CLMC-JIQT2x
3.2 V ±2.0%	50 ms typ.	S-80132ANMC-JCRT2x	S-80132ALMC-JART2x
	100 ms typ.	S-80132BNMC-JGRT2x	S-80132BLMC-JERT2x
	200 ms typ.	S-80132CNMC-JKRT2x	S-80132CLMC-JIRT2x
3.3 V ±2.0%	50 ms typ.	S-80133ANMC-JCST2x	S-80133ALMC-JAST2x
	100 ms typ.	S-80133BNMC-JGST2x	S-80133BLMC-JEST2x
	200 ms typ.	S-80133CNMC-JKST2x	S-80133CLMC-JIST2x
3.4 V ±2.0%	50 ms typ.	S-80134ANMC-JCTT2x	S-80134ALMC-JATT2x
	100 ms typ.	S-80134BNMC-JGTT2x	S-80134BLMC-JETT2x
	200 ms typ.	S-80134CNMC-JKTT2x	S-80134CLMC-JITT2x

Table 1 (2/3)

Detection voltage range	Delay time	Nch open-drain output products	CMOS output products
3.5 V ±2.0%	50 ms typ.	S-80135ANMC-JCUT2x	S-80135ALMC-JAUT2x
	100 ms typ.	S-80135BNMC-JGUT2x	S-80135BLMC-JEUT2x
	200 ms typ.	S-80135CNMC-JKUT2x	S-80135CLMC-JIUT2x
3.6 V ±2.0%	50 ms typ.	S-80136ANMC-JCVT2x	S-80136ALMC-JAVT2x
	100 ms typ.	S-80136BNMC-JGVT2x	S-80136BLMC-JEVT2x
	200 ms typ.	S-80136CNMC-JKVT2x	S-80136CLMC-JIVT2x
3.7 V ±2.0%	50 ms typ.	S-80137ANMC-JCWT2x	S-80137ALMC-JAWT2x
	100 ms typ.	S-80137BNMC-JGWT2x	S-80137BLMC-JEWT2x
	200 ms typ.	S-80137CNMC-JKWT2x	S-80137CLMC-JIWT2x
3.8 V ±2.0%	50 ms typ.	S-80138ANMC-JCXT2x	S-80138ALMC-JAXT2x
	100 ms typ.	S-80138BNMC-JGXT2x	S-80138BLMC-JEXT2x
	200 ms typ.	S-80138CNMC-JKXT2x	S-80138CLMC-JIXT2x
3.9 V ±2.0%	50 ms typ.	S-80139ANMC-JCYT2x	S-80139ALMC-JAYT2x
	100 ms typ.	S-80139BNMC-JGYT2x	S-80139BLMC-JEYT2x
	200 ms typ.	S-80139CNMC-JKYT2x	S-80139CLMC-JIYT2x
4.0 V ±2.0%	50 ms typ.	S-80140ANMC-JCZT2x	S-80140ALMC-JAZT2x
	100 ms typ.	S-80140BNMC-JGZT2x	S-80140BLMC-JEZT2x
	200 ms typ.	S-80140CNMC-JKZT2x	S-80140CLMC-JIZT2x
4.1 V ±2.0%	50 ms typ.	S-80141ANMC-JC2T2x	S-80141ALMC-JA2T2x
	100 ms typ.	S-80141BNMC-JG2T2x	S-80141BLMC-JE2T2x
	200 ms typ.	S-80141CNMC-JK2T2x	S-80141CLMC-JI2T2x
4.2 V ±2.0%	50 ms typ.	S-80142ANMC-JC3T2x	S-80142ALMC-JA3T2x
	100 ms typ.	S-80142BNMC-JG3T2x	S-80142BLMC-JE3T2x
	200 ms typ.	S-80142CNMC-JK3T2x	S-80142CLMC-JI3T2x
4.3 V ±2.0%	50 ms typ.	S-80143ANMC-JC4T2x	S-80143ALMC-JA4T2x
	100 ms typ.	S-80143BNMC-JG4T2x	S-80143BLMC-JE4T2x
	200 ms typ.	S-80143CNMC-JK4T2x	S-80143CLMC-JI4T2x
4.4 V ±2.0%	50 ms typ.	S-80144ANMC-JC5T2x	S-80144ALMC-JA5T2x
	100 ms typ.	S-80144BNMC-JG5T2x	S-80144BLMC-JE5T2x
	200 ms typ.	S-80144CNMC-JK5T2x	S-80144CLMC-JI5T2x
4.5 V ±2.0%	50 ms typ.	S-80145ANMC-JC6T2x	S-80145ALMC-JA6T2x
	100 ms typ.	S-80145BNMC-JG6T2x	S-80145BLMC-JE6T2x
	200 ms typ.	S-80145CNMC-JK6T2x	S-80145CLMC-JI6T2x
4.6 V ±2.0%	50 ms typ.	S-80146ANMC-JC7T2x	S-80146ALMC-JA7T2x
	100 ms typ.	S-80146BNMC-JG7T2x	S-80146BLMC-JE7T2x
	200 ms typ.	S-80146CNMC-JK7T2x	S-80146CLMC-JI7T2x
4.7 V ±2.0%	50 ms typ.	S-80147ANMC-JC8T2x	S-80147ALMC-JA8T2x
	100 ms typ.	S-80147BNMC-JG8T2x	S-80147BLMC-JE8T2x
	200 ms typ.	S-80147CNMC-JK8T2x	S-80147CLMC-JI8T2x
4.8 V ±2.0%	50 ms typ.	S-80148ANMC-JC9T2x	S-80148ALMC-JA9T2x
	100 ms typ.	S-80148BNMC-JG9T2x	S-80148BLMC-JE9T2x
	200 ms typ.	S-80148CNMC-JK9T2x	S-80148CLMC-JI9T2x
4.9 V ±2.0%	50 ms typ.	S-80149ANMC-JDAT2x	S-80149ALMC-JBAT2x
	100 ms typ.	S-80149BNMC-JHAT2x	S-80149BLMC-JFAT2x
	200 ms typ.	S-80149CNMC-JLAT2x	S-80149CLMC-JJAT2x

Table 1 (3/3)

Detection voltage range	Delay time	Nch open-drain output products	CMOS output products
5.0 V ±2.0%	50 ms typ.	S-80150ANMC-JDBT2x	S-80150ALMC-JBBT2x
	100 ms typ.	S-80150BNMC-JHBT2x	S-80150BLMC-JFBT2x
	200 ms typ.	S-80150CNMC-JLBT2x	S-80150CLMC-JJBT2x
5.1 V ±2.0%	50 ms typ.	S-80151ANMC-JDCT2x	S-80151ALMC-JBCT2x
	100 ms typ.	S-80151BNMC-JHCT2x	S-80151BLMC-JFCT2x
	200 ms typ.	S-80151CNMC-JLCT2x	S-80151CLMC-JJCT2x
5.2 V ±2.0%	50 ms typ.	S-80152ANMC-JDDT2x	S-80152ALMC-JBDT2x
	100 ms typ.	S-80152BNMC-JHDT2x	S-80152BLMC-JFDT2x
	200 ms typ.	S-80152CNMC-JLDT2x	S-80152CLMC-JJDT2x
5.3 V ±2.0%	50 ms typ.	S-80153ANMC-JDET2x	S-80153ALMC-JBET2x
	100 ms typ.	S-80153BNMC-JHET2x	S-80153BLMC-JFET2x
	200 ms typ.	S-80153CNMC-JLET2x	S-80153CLMC-JJET2x
5.4 V ±2.0%	50 ms typ.	S-80154ANMC-JDFT2x	S-80154ALMC-JBFT2x
	100 ms typ.	S-80154BNMC-JHFT2x	S-80154BLMC-JFFT2x
	200 ms typ.	S-80154CNMC-JLFT2x	S-80154CLMC-JJFT2x
5.5 V ±2.0%	50 ms typ.	S-80155ANMC-JDGT2x	S-80155ALMC-JBGT2x
	100 ms typ.	S-80155BNMC-JHGT2x	S-80155BLMC-JFGT2x
	200 ms typ.	S-80155CNMC-JLGT2x	S-80155CLMC-JJGT2x
5.6 V ±2.0%	50 ms typ.	S-80156ANMC-JDHT2x	S-80156ALMC-JBHT2x
	100 ms typ.	S-80156BNMC-JHHT2x	S-80156BLMC-JFHT2x
	200 ms typ.	S-80156CNMC-JLHT2x	S-80156CLMC-JJHT2x
5.7 V ±2.0%	50 ms typ.	S-80157ANMC-JDIT2x	S-80157ALMC-JBIT2x
	100 ms typ.	S-80157BNMC-JHIT2x	S-80157BLMC-JFIT2x
	200 ms typ.	S-80157CNMC-JLIT2x	S-80157CLMC-JJIT2x
5.8 V ±2.0%	50 ms typ.	S-80158ANMC-JDJT2x	S-80158ALMC-JBJT2x
	100 ms typ.	S-80158BNMC-JHJT2x	S-80158BLMC-JFJT2x
	200 ms typ.	S-80158CNMC-JLJT2x	S-80158CLMC-JJJT2x
5.9 V ±2.0%	50 ms typ.	S-80159ANMC-JDKT2x	S-80159ALMC-JBKT2x
	100 ms typ.	S-80159BNMC-JHKT2x	S-80159BLMC-JFKT2x
	200 ms typ.	S-80159CNMC-JLKT2x	S-80159CLMC-JJKT2x
6.0 V ±2.0%	50 ms typ.	S-80160ANMC-JDLT2x	S-80160ALMC-JBLT2x
	100 ms typ.	S-80160BNMC-JHLT2x	S-80160BLMC-JFLT2x
	200 ms typ.	S-80160CNMC-JLLT2x	S-80160CLMC-JJLT2x

Remark 1. x: G or U

2. Please select products of environmental code = U for Sn 100%, halogen-free products.

3-2. SNT-4A

Table 2 (1/3)

Detection voltage range	Delay time	Nch open-drain output products	CMOS output products
2.2 V ±2.0%	50 ms typ.	S-80122ANPF-JCHTFx	S-80122ALPF-JAHTF _x
	100 ms typ.	S-80122BNPF-JGHTF _x	S-80122BLPF-JEHTF _x
	200 ms typ.	S-80122CNPF-JKHTF _x	S-80122CLPF-JIHTF _x
2.3 V ±2.0%	50 ms typ.	S-80123ANPF-JCITF _x	S-80123ALPF-JAITF _x
	100 ms typ.	S-80123BNPF-JGITF _x	S-80123BLPF-JEITF _x
	200 ms typ.	S-80123CNPF-JKITF _x	S-80123CLPF-JIITF _x
2.4 V ±2.0%	50 ms typ.	S-80124ANPF-JCJTF _x	S-80124ALPF-JAJTF _x
	100 ms typ.	S-80124BNPF-JGJTF _x	S-80124BLPF-JEJTF _x
	200 ms typ.	S-80124CNPF-JKJTF _x	S-80124CLPF-JIJTF _x
2.5 V ±2.0%	50 ms typ.	S-80125ANPF-JCKTF _x	S-80125ALPF-JAKTF _x
	100 ms typ.	S-80125BNPF-JGKTF _x	S-80125BLPF-JEKTF _x
	200 ms typ.	S-80125CNPF-JKKTF _x	S-80125CLPF-JIKTF _x
2.6 V ±2.0%	50 ms typ.	S-80126ANPF-JCLTF _x	S-80126ALPF-JALTF _x
	100 ms typ.	S-80126BNPF-JGLTF _x	S-80126BLPF-JELTF _x
	200 ms typ.	S-80126CNPF-JKLTf _x	S-80126CLPF-JILTF _x
2.7 V ±2.0%	50 ms typ.	S-80127ANPF-JCMTF _x	S-80127ALPF-JAMTF _x
	100 ms typ.	S-80127BNPF-JGMTF _x	S-80127BLPF-JEMTF _x
	200 ms typ.	S-80127CNPF-JKMTF _x	S-80127CLPF-JIMTF _x
2.8 V ±2.0%	50 ms typ.	S-80128ANPF-JCNTF _x	S-80128ALPF-JANTF _x
	100 ms typ.	S-80128BNPF-JGNTF _x	S-80128BLPF-JENTF _x
	200 ms typ.	S-80128CNPF-JKNTF _x	S-80128CLPF-JINTF _x
2.9 V ±2.0%	50 ms typ.	S-80129ANPF-JCOTF _x	S-80129ALPF-JAOTF _x
	100 ms typ.	S-80129BNPF-JGOTF _x	S-80129BLPF-JEOTF _x
	200 ms typ.	S-80129CNPF-JKOTF _x	S-80129CLPF-JIOTF _x
3.0 V ±2.0%	50 ms typ.	S-80130ANPF-JCPTF _x	S-80130ALPF-JAPTF _x
	100 ms typ.	S-80130BNPF-JGPTF _x	S-80130BLPF-JEPTF _x
	200 ms typ.	S-80130CNPF-JKPTF _x	S-80130CLPF-JIPTF _x
3.1 V ±2.0%	50 ms typ.	S-80131ANPF-JCQTF _x	S-80131ALPF-JAQTF _x
	100 ms typ.	S-80131BNPF-JGQTF _x	S-80131BLPF-JEQTF _x
	200 ms typ.	S-80131CNPF-JKQTF _x	S-80131CLPF-JIQTF _x
3.2 V ±2.0%	50 ms typ.	S-80132ANPF-JCRTF _x	S-80132ALPF-JARTF _x
	100 ms typ.	S-80132BNPF-JGRTF _x	S-80132BLPF-JERTF _x
	200 ms typ.	S-80132CNPF-JKRTF _x	S-80132CLPF-JIRTF _x
3.3 V ±2.0%	50 ms typ.	S-80133ANPF-JCSTF _x	S-80133ALPF-JASTF _x
	100 ms typ.	S-80133BNPF-JGSTF _x	S-80133BLPF-JESTF _x
	200 ms typ.	S-80133CNPF-JKSTF _x	S-80133CLPF-JISTF _x
3.4 V ±2.0%	50 ms typ.	S-80134ANPF-JCTTF _x	S-80134ALPF-JATTF _x
	100 ms typ.	S-80134BNPF-JGTTF _x	S-80134BLPF-JETTF _x
	200 ms typ.	S-80134CNPF-JKTTF _x	S-80134CLPF-JITTF _x
3.5 V ±2.0%	50 ms typ.	S-80135ANPF-JCUTF _x	S-80135ALPF-JAUTF _x
	100 ms typ.	S-80135BNPF-JGUTF _x	S-80135BLPF-JEUTF _x
	200 ms typ.	S-80135CNPF-JKUTF _x	S-80135CLPF-JIUTF _x
3.6 V ±2.0%	50 ms typ.	S-80136ANPF-JCVTF _x	S-80136ALPF-JAVTF _x
	100 ms typ.	S-80136BNPF-JGVTF _x	S-80136BLPF-JEVTF _x
	200 ms typ.	S-80136CNPF-JKVTF _x	S-80136CLPF-JIVTF _x
3.7 V ±2.0%	50 ms typ.	S-80137ANPF-JCWTF _x	S-80137ALPF-JAWTF _x
	100 ms typ.	S-80137BNPF-JGWTF _x	S-80137BLPF-JEWTF _x
	200 ms typ.	S-80137CNPF-JKWTF _x	S-80137CLPF-JIWTF _x

Table 2 (2/3)

Detection voltage range	Delay time	Nch open-drain output products	CMOS output products
3.8 V \pm 2.0%	50 ms typ.	S-80138ANPF-JCXTFx	S-80138ALPF-JAXTFx
	100 ms typ.	S-80138BNPF-JGXTFx	S-80138BLPF-JEXTFx
	200 ms typ.	S-80138CNPF-JKXTFx	S-80138CLPF-JIXTFx
3.9 V \pm 2.0%	50 ms typ.	S-80139ANPF-JCYTFx	S-80139ALPF-JAYTFx
	100 ms typ.	S-80139BNPF-JGYTFx	S-80139BLPF-JEYTFx
	200 ms typ.	S-80139CNPF-JKYTFx	S-80139CLPF-JIYTFx
4.0 V \pm 2.0%	50 ms typ.	S-80140ANPF-JCZTFx	S-80140ALPF-JAZTFx
	100 ms typ.	S-80140BNPF-JGZTFx	S-80140BLPF-JEZTFx
	200 ms typ.	S-80140CNPF-JKZTFx	S-80140CLPF-JIZTFx
4.1 V \pm 2.0%	50 ms typ.	S-80141ANPF-JC2TFx	S-80141ALPF-JA2TFx
	100 ms typ.	S-80141BNPF-JG2TFx	S-80141BLPF-JE2TFx
	200 ms typ.	S-80141CNPF-JK2TFx	S-80141CLPF-JI2TFx
4.2 V \pm 2.0%	50 ms typ.	S-80142ANPF-JC3TFx	S-80142ALPF-JA3TFx
	100 ms typ.	S-80142BNPF-JG3TFx	S-80142BLPF-JE3TFx
	200 ms typ.	S-80142CNPF-JK3TFx	S-80142CLPF-JI3TFx
4.3 V \pm 2.0%	50 ms typ.	S-80143ANPF-JC4TFx	S-80143ALPF-JA4TFx
	100 ms typ.	S-80143BNPF-JG4TFx	S-80143BLPF-JE4TFx
	200 ms typ.	S-80143CNPF-JK4TFx	S-80143CLPF-JI4TFx
4.4 V \pm 2.0%	50 ms typ.	S-80144ANPF-JC5TFx	S-80144ALPF-JA5TFx
	100 ms typ.	S-80144BNPF-JG5TFx	S-80144BLPF-JE5TFx
	200 ms typ.	S-80144CNPF-JK5TFx	S-80144CLPF-JI5TFx
4.5 V \pm 2.0%	50 ms typ.	S-80145ANPF-JC6TFx	S-80145ALPF-JA6TFx
	100 ms typ.	S-80145BNPF-JG6TFx	S-80145BLPF-JE6TFx
	200 ms typ.	S-80145CNPF-JK6TFx	S-80145CLPF-JI6TFx
4.6 V \pm 2.0%	50 ms typ.	S-80146ANPF-JC7TFx	S-80146ALPF-JA7TFx
	100 ms typ.	S-80146BNPF-JG7TFx	S-80146BLPF-JE7TFx
	200 ms typ.	S-80146CNPF-JK7TFx	S-80146CLPF-JI7TFx
4.7 V \pm 2.0%	50 ms typ.	S-80147ANPF-JC8TFx	S-80147ALPF-JA8TFx
	100 ms typ.	S-80147BNPF-JG8TFx	S-80147BLPF-JE8TFx
	200 ms typ.	S-80147CNPF-JK8TFx	S-80147CLPF-JI8TFx
4.8 V \pm 2.0%	50 ms typ.	S-80148ANPF-JC9TFx	S-80148ALPF-JA9TFx
	100 ms typ.	S-80148BNPF-JG9TFx	S-80148BLPF-JE9TFx
	200 ms typ.	S-80148CNPF-JK9TFx	S-80148CLPF-JI9TFx
4.9 V \pm 2.0%	50 ms typ.	S-80149ANPF-JDATFx	S-80149ALPF-JBATFx
	100 ms typ.	S-80149BNPF-JHATFx	S-80149BLPF-JFATFx
	200 ms typ.	S-80149CNPF-JLATFx	S-80149CLPF-JJATFx
5.0 V \pm 2.0%	50 ms typ.	S-80150ANPF-JDBTFx	S-80150ALPF-JBBTFx
	100 ms typ.	S-80150BNPF-JHBTfX	S-80150BLPF-JFBTFx
	200 ms typ.	S-80150CNPF-JLBTfX	S-80150CLPF-JJBTfX
5.1 V \pm 2.0%	50 ms typ.	S-80151ANPF-JDCTFx	S-80151ALPF-JBCTFx
	100 ms typ.	S-80151BNPF-JHCTFx	S-80151BLPF-JFCTFx
	200 ms typ.	S-80151CNPF-JLCTFx	S-80151CLPF-JJCTFx
5.2 V \pm 2.0%	50 ms typ.	S-80152ANPF-JDDTFx	S-80152ALPF-JBDTFx
	100 ms typ.	S-80152BNPF-JHDTFx	S-80152BLPF-JFDTFx
	200 ms typ.	S-80152CNPF-JLDTFx	S-80152CLPF-JJDTFx
5.3 V \pm 2.0%	50 ms typ.	S-80153ANPF-JDETFx	S-80153ALPF-JBETFx
	100 ms typ.	S-80153BNPF-JHETFx	S-80153BLPF-JFETFx
	200 ms typ.	S-80153CNPF-JLETFx	S-80153CLPF-JJETFx

Table 2 (3/3)

Detection voltage range	Delay time	Nch open-drain output products	CMOS output products
5.4 V ±2.0%	50 ms typ.	S-80154ANPF-JDFTFx	S-80154ALPF-JBFTFx
	100 ms typ.	S-80154BNPF-JHFTFx	S-80154BLPF-JFFTFx
	200 ms typ.	S-80154CNPF-JLFTFx	S-80154CLPF-JJFTFx
5.5 V ±2.0%	50 ms typ.	S-80155ANPF-JDGTFx	S-80155ALPF-JBGTFx
	100 ms typ.	S-80155BNPF-JHGTFx	S-80155BLPF-JF _x TFx
	200 ms typ.	S-80155CNPF-JLGTfX	S-80155CLPF-JJGTfX
5.6 V ±2.0%	50 ms typ.	S-80156ANPF-JDHTFx	S-80156ALPF-JBHTFx
	100 ms typ.	S-80156BNPF-JHHTFx	S-80156BLPF-JFHTFx
	200 ms typ.	S-80156CNPF-JLHTFx	S-80156CLPF-JJHTFx
5.7 V ±2.0%	50 ms typ.	S-80157ANPF-JDITFx	S-80157ALPF-JBITFx
	100 ms typ.	S-80157BNPF-JHITFx	S-80157BLPF-JFITFx
	200 ms typ.	S-80157CNPF-JLITFx	S-80157CLPF-JJITFx
5.8 V ±2.0%	50 ms typ.	S-80158ANPF-JDJTFx	S-80158ALPF-JBJTFx
	100 ms typ.	S-80158BNPF-JHJTFx	S-80158BLPF-JFJTFx
	200 ms typ.	S-80158CNPF-JLJTFx	S-80158CLPF-JJJTFx
5.9 V ±2.0%	50 ms typ.	S-80159ANPF-JDKTFx	S-80159ALPF-JBKTFx
	100 ms typ.	S-80159BNPF-JHKTFx	S-80159BLPF-JFKTFx
	200 ms typ.	S-80159CNPF-JLKTFx	S-80159CLPF-JJKTFx
6.0 V ±2.0%	50 ms typ.	S-80160ANPF-JDLTFx	S-80160ALPF-JBLTFx
	100 ms typ.	S-80160BNPF-JHLTFx	S-80160BLPF-JFLTfX
	200 ms typ.	S-80160CNPF-JLLTFx	S-80160CLPF-JJLTFx

Remark 1. x: G or U

2. Please select products of environmental code = U for Sn 100%, halogen-free products.

■ Pin Configurations

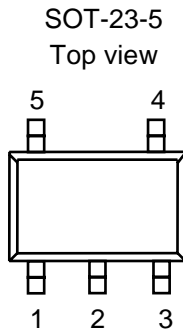


Figure 3

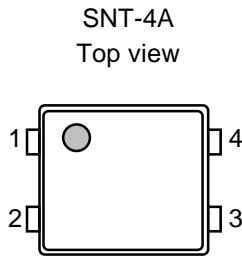


Figure 4

Table 3

Pin No.	Pin name	Pin description
1	DS ^{*1}	ON/OFF switch for delay time
2	VSS	GND pin
3	NC ^{*2}	No connection
4	OUT	Voltage detection output pin
5	VDD	Voltage input pin

*1. Refer to “2. Delay Circuit” in “■ Operation” for operation.

*2. The NC pin is electrically open.

The NC pin can be connected to VDD or VSS.

Table 4

Pin No.	Pin name	Pin description
1	VSS	GND pin
2	DS ^{*1}	ON/OFF switch for delay time
3	VDD	Voltage input pin
4	OUT	Voltage detection output pin

*1. Refer to “2. Delay Circuit” in “■ Operation” for operation.

■ Absolute Maximum Ratings

Table 5

(Ta=25°C unless otherwise specified)

Item	Symbol	Absolute maximum ratings	Unit
Power supply voltage	$V_{DD}-V_{SS}$	12	V
Output voltage	Nch open-drain output products CMOS output products	V_{OUT}	$V_{SS}-0.3$ to $V_{SS}+12$
			$V_{SS}-0.3$ to $V_{DD}+0.3$
Output current	I_{OUT}	50	mA
Power dissipation	SOT-23-5	P_D	250 (When not mounted on board)
			600 ^{*1}
	SNT-4A		140 (When not mounted on board)
			300 ^{*1}
Operating ambient temperature	T_{opr}	-40 to +85	°C
Storage temperature	T_{stg}	-40 to +125	

*1. When mounted on board

[Mounted board]

- (1) Board size: 114.3 mm × 76.2 mm × t1.6 mm
- (2) Board name: JEDEC STANDARD51-7

Caution The absolute maximum ratings are rated values exceeding which the product could suffer physical damage. These values must therefore not be exceeded under any conditions.

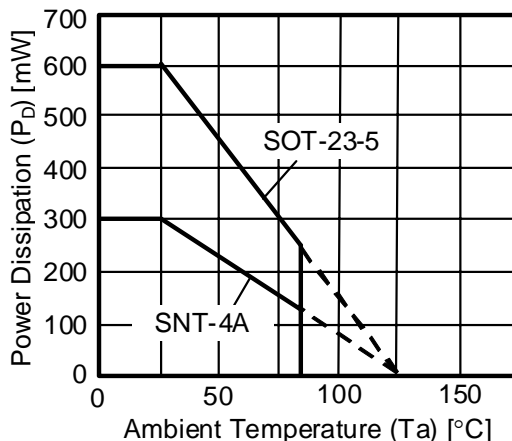


Figure 5 Power Dissipation of Package (When Mounted on Board)

■ Electrical Characteristics

Table 6

(Ta=25 °C Unless otherwise specified)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	Test circuit	
Detection voltage*1	$-V_{DET}$	—	$-V_{DET(S)} \times 0.98$	$-V_{DET(S)}$	$-V_{DET(S)} \times 1.02$	V	1	
Hysteresis width	V_{HYS}	—	30	60	100	mV		
Current consumption	I_{SS}	$V_{DD}=3.5\text{ V}$	S-80122 to 26	—	1.3	3.3	μA	
		$V_{DD}=4.5\text{ V}$	S-80127 to 39	—	1.5	3.5		
		$V_{DD}=6.5\text{ V}$	S-80140 to 60	—	1.8	4.0		
Operating voltage	V_{DD}	—	0.95	—	10.0	V		
Output current	I_{OUT}	Output transistor, Nch, $V_{OUT}=0.5\text{ V}$	$V_{DD}=1.2\text{ V}$ S-80122 to 60	0.75	1.5	—	mA	2
			$V_{DD}=2.4\text{ V}$ S-80127 to 60	3.0	6.0	—		
		Only for CMOS output products, Output transistor, Pch, $V_{DD}-V_{OUT}=0.5\text{ V}$	$V_{DD}=4.8\text{ V}$ S-80122 to 39	1.0	2.0	—		
			$V_{DD}=6.0\text{ V}$ S-80140 to 54	1.25	2.5	—		
			$V_{DD}=8.4\text{ V}$ S-80155 to 60	1.5	3.0	—		
Leakage current	I_{LEAK}	Only for Nch open-drain output products, Output transistor, Nch, $V_{DD}=10.0\text{ V}$, $V_{OUT}=10.0\text{ V}$	—	—	0.1	μA		
Detection voltage temperature coefficient*2	$\frac{\Delta - V_{DET}}{\Delta Ta \bullet -V_{DET}}$	$Ta=-40\text{ }^\circ\text{C}$ to $+85\text{ }^\circ\text{C}$	—	± 120	± 360	ppm/ $^\circ\text{C}$	1	
Delay time 1	t_{D1}	$V_{DD}=-V_{DET}+1\text{ V}$, DS pin Low	S-801xxAx	32.5	50	72.5	ms	
			S-801xxBx	65	100	145		
			S-801xxCx	130	200	290		
Delay time 2	t_{D2}	$V_{DD}=-V_{DET}+1\text{ V}$, DS pin High	110	220	330	μs	3	
Input voltage	V_{SH}	DS pin, $V_{DD}=6.0\text{ V}$	1.0	—	—	V	4	
	V_{SL}	DS pin, $V_{DD}=6.0\text{ V}$	—	—	0.3			

*1. $-V_{DET}$: Actual detection voltage value, $-V_{DET(S)}$: Specified detection voltage value (The center value of the detection voltage range in **Table 1 to 2**.)

*2. Temperature change ratio for the detection voltage [mV/ $^\circ\text{C}$] is calculated using the following equation.

$$\frac{\Delta - V_{DET}}{\Delta Ta} [\text{mV}/^\circ\text{C}]^{*1} = -V_{DET(S)}(\text{Typ.})[\text{V}]^{*2} \times \frac{\Delta - V_{DET}}{\Delta Ta \bullet -V_{DET}} [\text{ppm}/^\circ\text{C}]^{*3} \div 1000$$

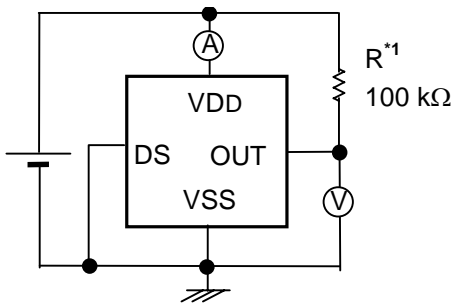
*1. Temperature change ratio of the detection voltage

*2. Specified detection voltage value

*3. Detection voltage temperature coefficient

■ Test Circuits

1.



*1. R is unnecessary for CMOS output products.

Figure 6

2.

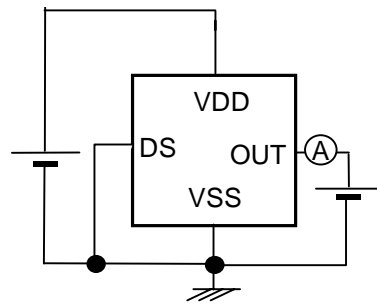
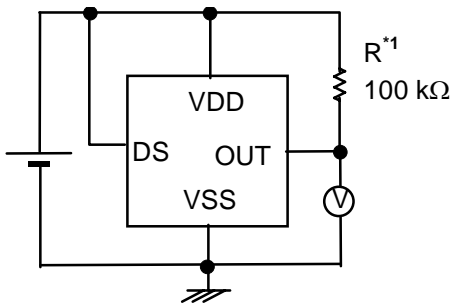


Figure 7

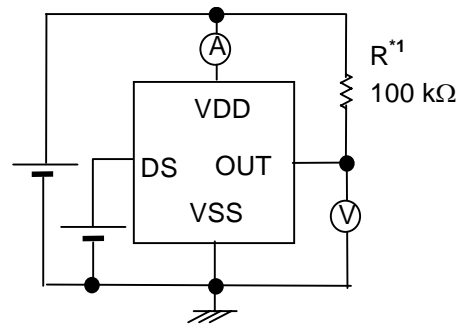
3.



*1. R is unnecessary for CMOS output products.

Figure 8

4.



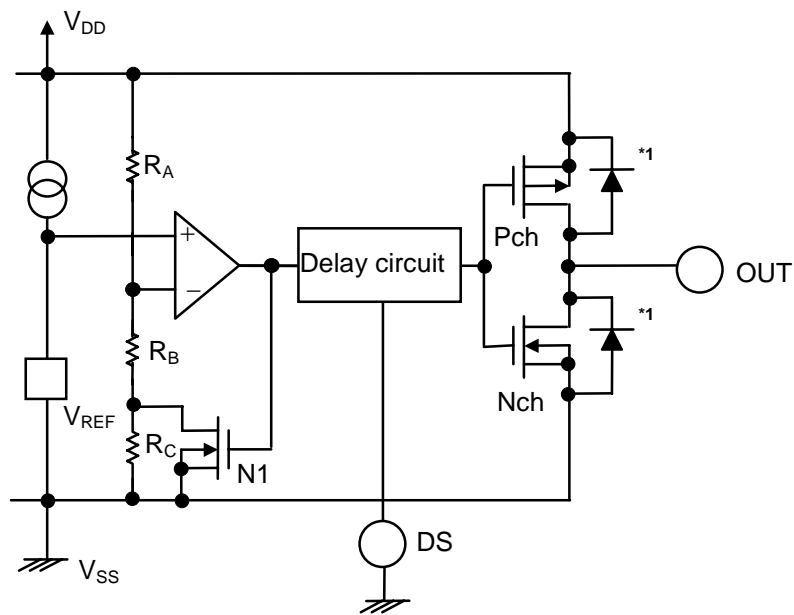
*1. R is unnecessary for CMOS output products.

Figure 9

■ Operation

1. Basic Operation: CMOS Output (Active Low)

- 1-1. When the power supply voltage (V_{DD}) is higher than the release voltage ($+V_{DET}$), the Nch transistor is OFF and the Pch transistor is ON to provide V_{DD} (high) at the output. Since the Nch transistor N1 in **Figure 10** is OFF, the comparator input voltage is $\frac{(R_B + R_C) \cdot V_{DD}}{R_A + R_B + R_C}$.
- 1-2. When the V_{DD} goes below $+V_{DET}$, the output provides the V_{DD} level, as long as V_{DD} remains above the detection voltage ($-V_{DET}$). When the V_{DD} falls below $-V_{DET}$ (point A in **Figure 11**), the Nch transistor becomes ON, the Pch transistor becomes OFF, and the V_{SS} level appears at the output. At this time the Nch transistor N1 in **Figure 10** becomes ON, the comparator input voltage is changed to $\frac{R_B \cdot V_{DD}}{R_A + R_B}$.
- 1-3. When the V_{DD} falls below the minimum operating voltage, the output becomes undefined, or goes to V_{DD} when the output is pulled up to V_{DD} .
- 1-4. The V_{SS} level appears when V_{DD} rises above the minimum operating voltage. The V_{SS} level still appears even when V_{DD} surpasses the $-V_{DET}$, as long as it does not exceed the release voltage $+V_{DET}$.
- 1-5. When V_{DD} rises above $+V_{DET}$ (point B in **Figure 11**), the Nch transistor becomes OFF and the Pch transistor becomes ON to provide V_{DD} at the output. The V_{DD} at the OUT pin is delayed for t_D due to the delay circuit.



*1. Paracitic diode

Figure 10 Operation 1

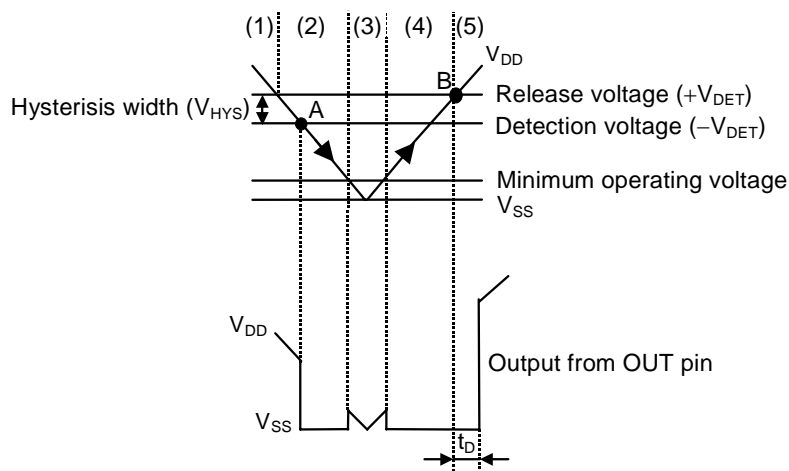


Figure 11 Operation 2

2. Delay Circuit

2-1. Delay Time

The delay circuit delays the output signal from the time at which the power voltage (V_{DD}) exceeds the release voltage ($+V_{DET}$) when V_{DD} is turned on. The output signal is not delayed when the V_{DD} goes below the detection voltage ($-V_{DET}$). (Refer to **Figure 11**.)

The delay time (t_D) is a fixed value that is determined by a built-in oscillation circuit and counter.

2-2. DS Pin (ON/OFF Switch Pin for Delay Time)

The DS pin should be connected to Low or High. When the DS pin is High, the output delay time becomes short since the output signal is taken from the middle of counter circuit (Refer to **Figure 16**).

3. Other Characteristics

3-1. Temperature Characteristics of Detection Voltage

The shaded area in **Figure 12** shows the temperature characteristics of the detection voltage.

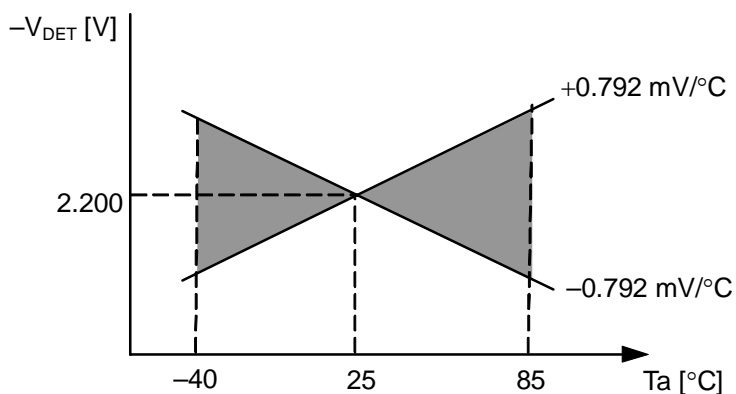


Figure 12 Temperature Characteristics of Detection Voltage (Example for S-80122xxxx)

3-2. Temperature Characteristics of Release Voltage

The temperature coefficient $\frac{\Delta + V_{DET}}{\Delta T_a}$ of the release voltage is calculated by the temperature coefficient $\frac{\Delta - V_{DET}}{\Delta T_a}$ for the detection voltage as follows:

$$\frac{\Delta + V_{DET}}{\Delta T_a} = \frac{+V_{DET}}{-V_{DET}} \times \frac{\Delta - V_{DET}}{\Delta T_a}$$

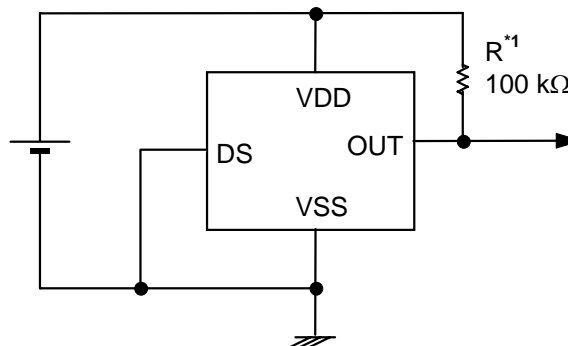
The temperature coefficients for the release voltage and the detection voltage have the same sign consequently.

3-3. Temperature Characteristics of Hysteresis Voltage

The temperature characteristics for the hysteresis voltage is expressed as $\frac{\Delta + V_{DET}}{\Delta T_a} - \frac{\Delta - V_{DET}}{\Delta T_a}$ and is calculated as follows:

$$\frac{\Delta + V_{DET}}{\Delta T_a} - \frac{\Delta - V_{DET}}{\Delta T_a} = \frac{V_{HYS}}{-V_{DET}} \times \frac{\Delta - V_{DET}}{\Delta T_a}$$

■ **Standard Circuit**



*1. R is unnecessary for CMOS output products.

Figure 13

Caution The above connection diagram and constant will not guarantees successful operation. Perform through using the actual application to set the constant.

■ Technical Terms

1. Detection Voltage ($-V_{DET}$), Release Voltage ($+V_{DET}$)

The detection voltage ($-V_{DET}$) is a voltage at which the output turns to low. The detection voltage varies slightly among products of the same specification. The variation of detection voltage between the specified minimum ($-V_{DET}$) Min. and the maximum ($-V_{DET}$) Max. is called the detection voltage range (Refer to **Figure 14**).

e.g. For the S-80122AN, the detection voltage lies in the range of $2.156 \leq -V_{DET} \leq 2.244$.
This means that some S-80122ANs have 2.156 V for $-V_{DET}$ and some have 2.244 V.

The release voltage ($+V_{DET}$) is a voltage at which the output turns to high. The release voltage varies slightly among products of the same specification. The variation of release voltages between the specified minimum ($+V_{DET}$) Min. and the maximum ($+V_{DET}$) Max. is called the release voltage range (Refer to **Figure 15**).

e.g. For the S-80122AN, the release voltage lies in the range of $2.186 \leq +V_{DET} \leq 2.344$.
This means that some S-80122ANs have 2.186 V for $+V_{DET}$ and some have 2.344 V.

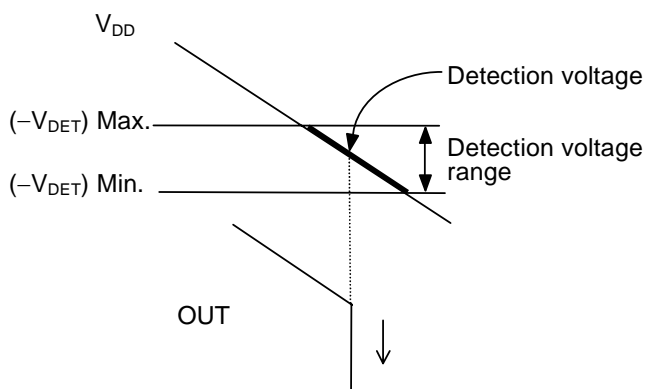


Figure 14 Detection Voltage

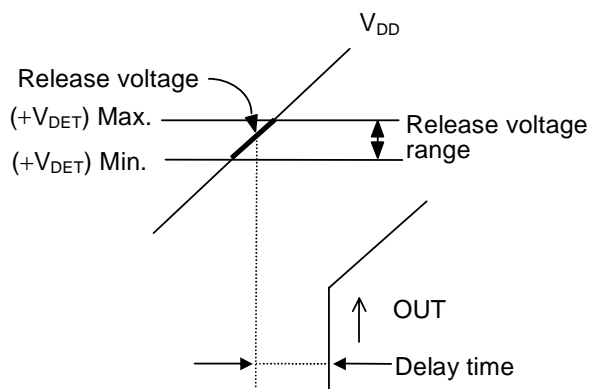


Figure 15 Release Voltage

Remark Although the detection voltage and release voltage overlap in the range of 2.186 V to 2.244 V, $+V_{DET}$ is always larger than $-V_{DET}$.

2. Hysteresis Width (V_{HYS})

Hysteresis width is the voltage difference between the detection voltage and the release voltage (The voltage at point B–The voltage at point A= V_{HYS} in **Figure 11**). The existence of the hysteresis width prevents malfunction caused by noise on input signal.

3. Delay Time (t_D)

Delay time is a time internally measured from the instant at which input voltage to the VDD pin exceeds the release voltage ($+V_{DET}$) to the point at which the output of the OUT pin inverts. The delay time is fixed in each series distinguished by A, B and C.

S-801xxAx series: typ. 50 ms

S-801xxBx series: typ. 100 ms

S-801xxCx series: typ. 200 ms

The output of the OUT pin can be inverted in a short delay time (t_{D2}) by setting the DS pin High (Refer to **Figure 16**).

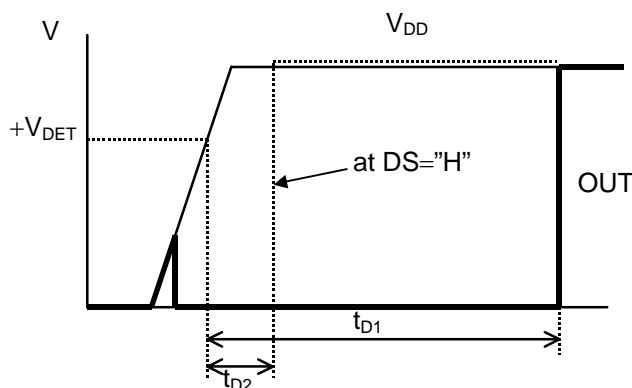


Figure 16

4. Through-type Current

The through-type current refers to the current that flows instantaneously at the time of detection and release of a voltage detector. The through-type current flows at a frequency of 20 kHz during release delay time since the internal logic circuit operates.

5. Oscillation

In applications where a resistor is connected to the voltage detector input (**Figure 17**), taking a CMOS active low products for example, the through-type current which is generated when the output goes from low to high (release) causes a voltage drop equal to [through-type current] \times [input resistance] across the resistor. When the input voltage drops below the detection voltage ($-V_{DET}$) as a result, the output voltage goes to low level. In this state, the through-type current stops and its resultant voltage drop disappears, and the output goes from low to high. The through-type current is again generated, a voltage drop appears, and repeating the process finally induces oscillation.

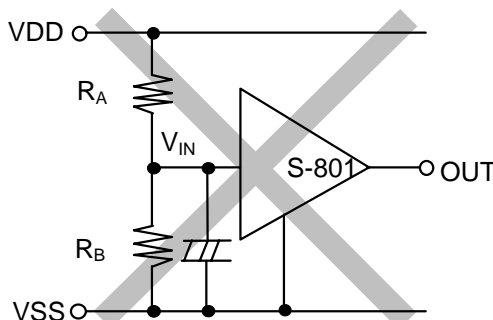


Figure 17 Example for Bad Implementation of Input Voltage Divider

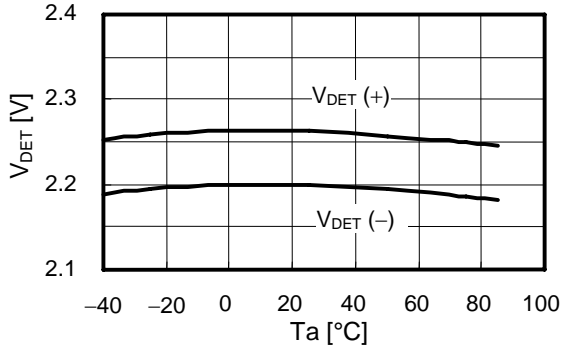
■ Precautions

- In the S-801 series products, the through-type current flows at a frequency of 20 kHz approximately during the delay time since the internal oscillator circuit and counter timer operate at voltage release. High impedance in the input may cause oscillation by the through-type current. When the input impedance is high, insert a capacitor between VDD pin and VSS pin to prevent oscillation.
- Do not apply an electrostatic discharge to this IC that exceeds the performance ratings of the built-in electrostatic protection circuit.
- In CMOS output products of the S-801 Series, the through-type current flows at detection and release. If the impedance is high, oscillation may occur due to the voltage drop by the through-type current during releasing.
- When designing for mass production using an application circuit described herein, the product deviation and temperature characteristics should be taken into consideration. SII shall not bear any responsibility for the patents on the circuits described herein.
- SII claims no responsibility for any and all disputes arising out of or in connection with any infringement of the products including this IC upon patents owned a third party.

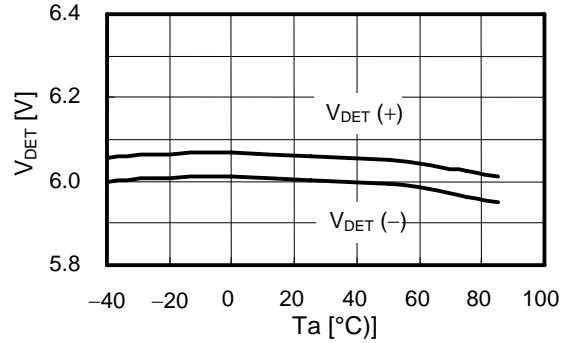
■ Typical Characteristics (Typical Data)

1. Detection Voltage (V_{DET}) - Temperature (T_a)

S-80122AL

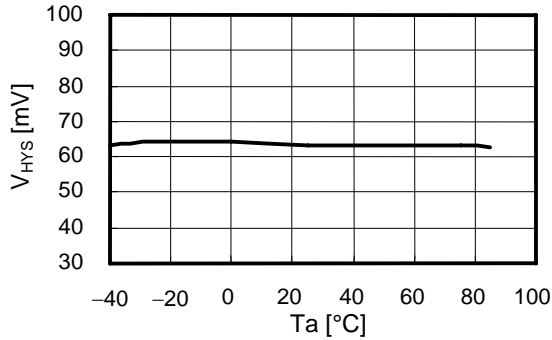


S-80160AL

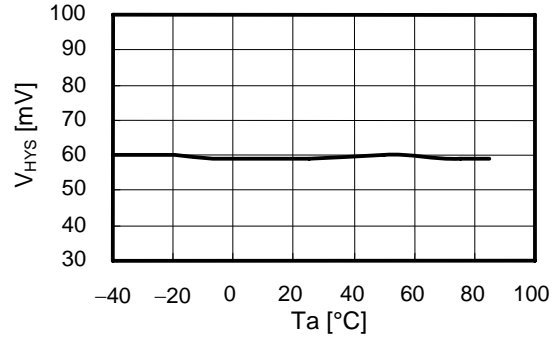


2. Hysteresis Voltage Width (V_{HYS}) - Temperature (T_a)

S-80122AL

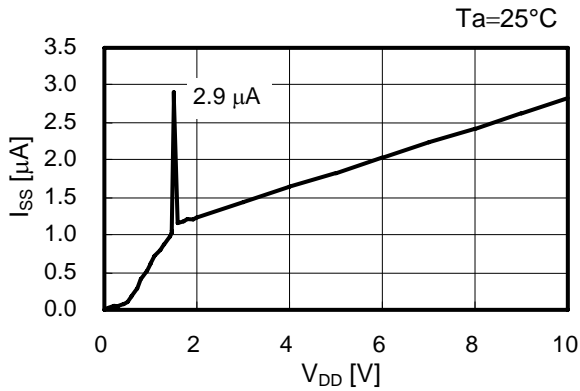


S-80160AL

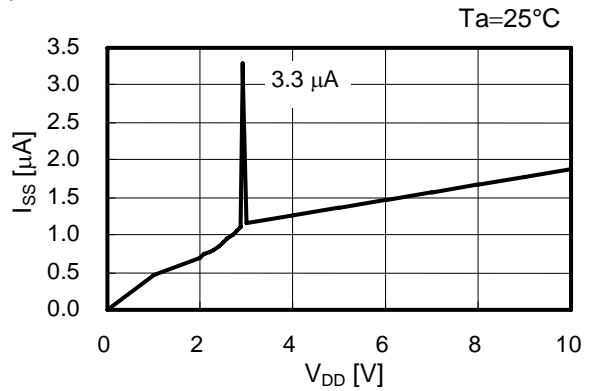


3. Current Consumption (I_{SS}) - Input Voltage (V_{DD})

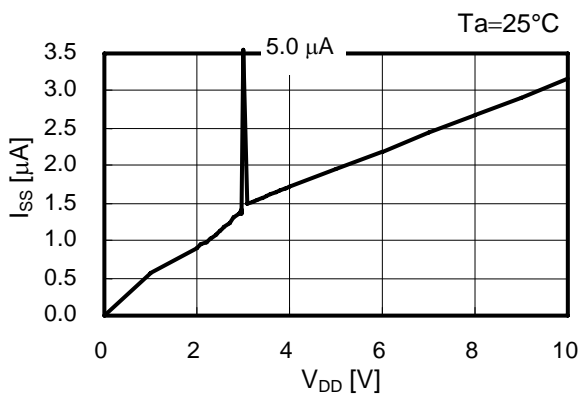
(a) S-80122AL



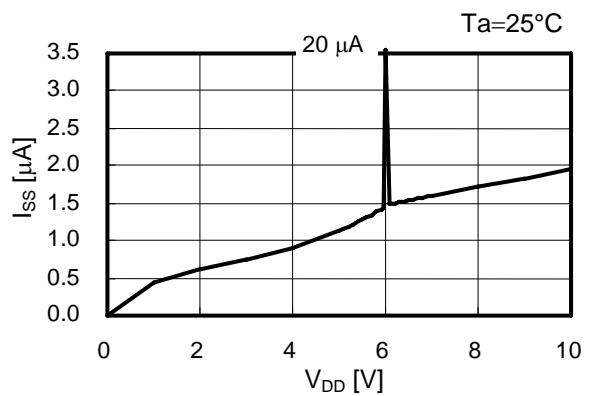
(b) S-80129AL



(c) S-80130AL

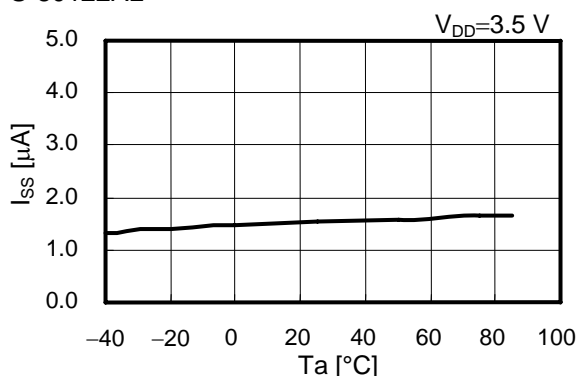


(d) S-80160AL

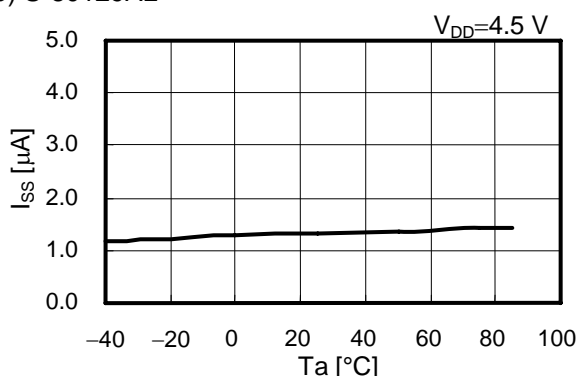


4. Current Consumption (I_{SS}) - Temperature (T_a)

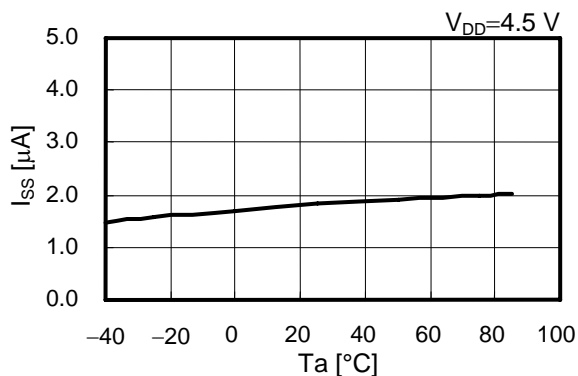
(a) S-80122AL



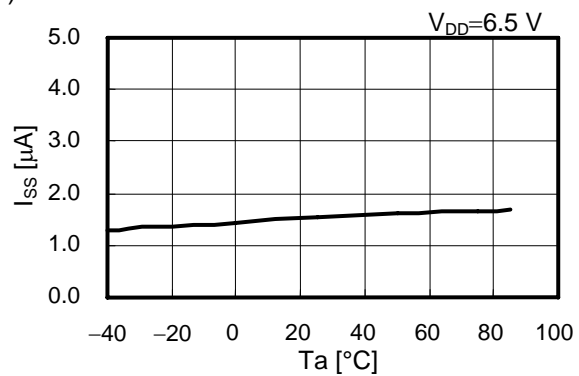
(b) S-80129AL



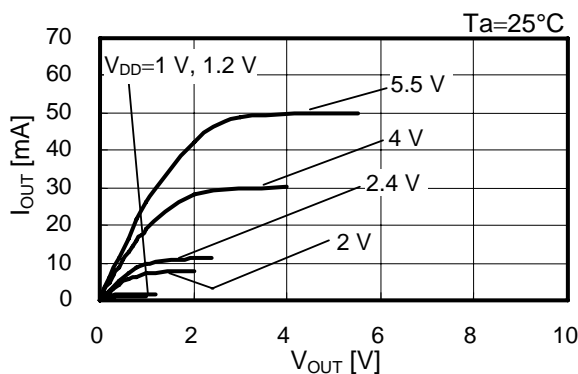
(c) S-80130AL



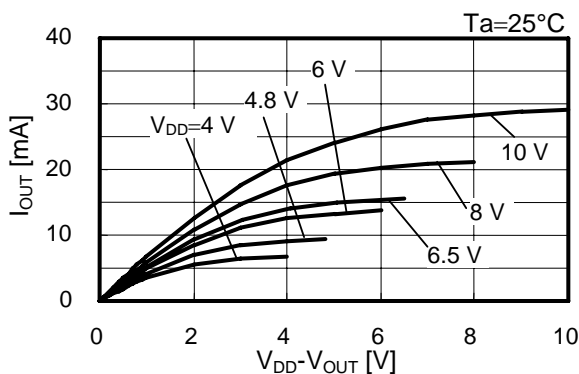
(d) S-80160AL



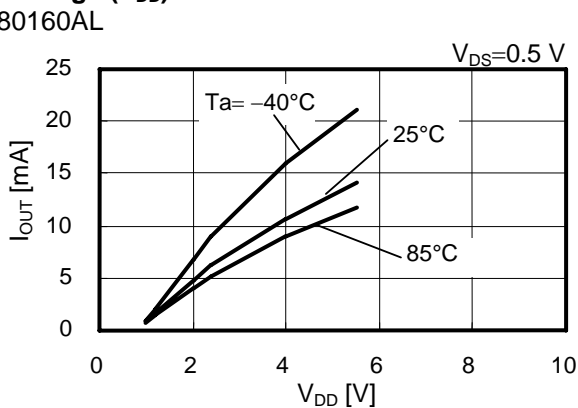
5. Nch Transistor Output Current (I_{OUT}) - V_{OUT}
S-80160AL



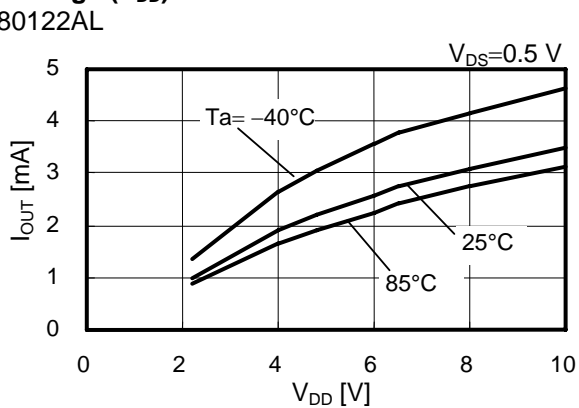
6. Pch Transistor Output Current (I_{OUT}) - (V_{DD} - V_{OUT})
S-80122AL



7. Nch Transistor Output Current (I_{OUT}) - Input Voltage (V_{DD})
S-80160AL

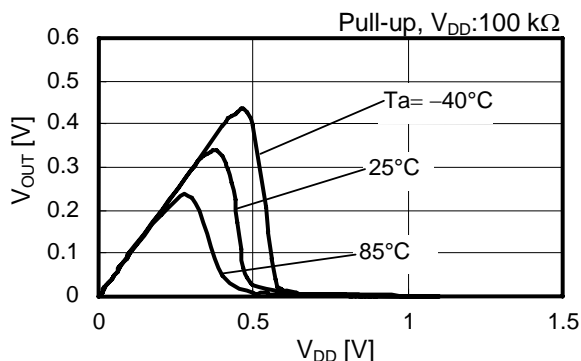


8. Pch transistor Output Current (I_{OUT}) - Input Voltage (V_{DD})
S-80122AL



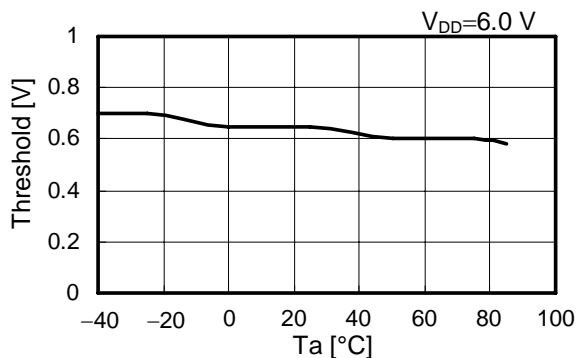
9. Minimum Operating Voltage - Input Voltage (V_{DD})

S-80122AN



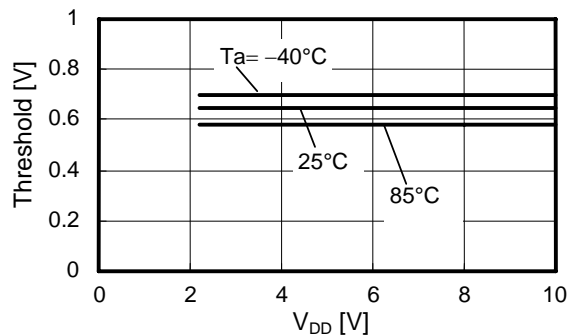
10. Threshold Voltage of DS Pin - Temperature (T_a)

S-80122AL



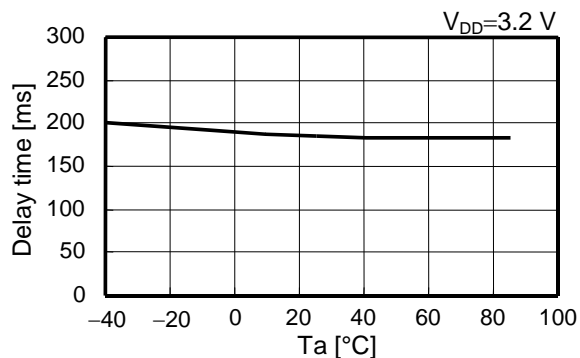
11. Threshold Voltage of DS Pin - Input Voltage (V_{DD})

S-80122AL

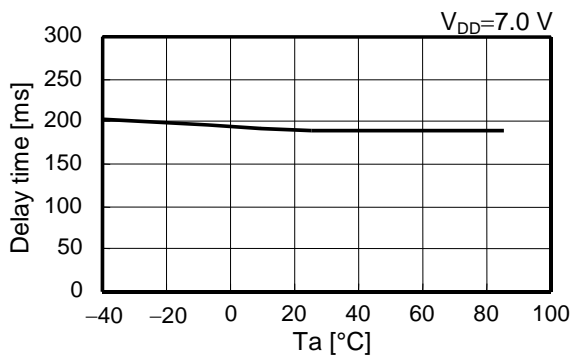


12. Delay Time 1 - Temperature (T_a)

S-80122CL

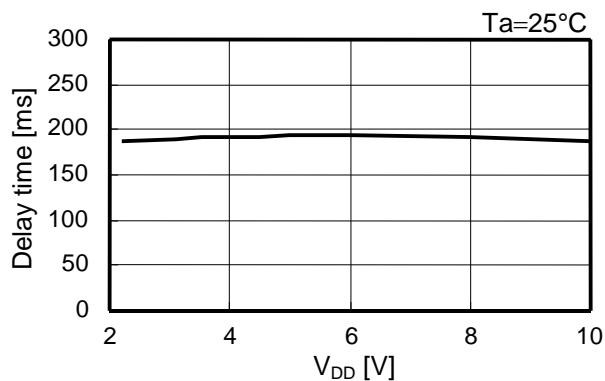


S-80160CL



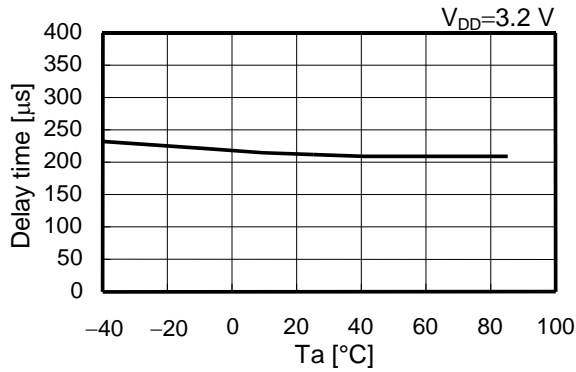
13. Delay Time 1 - Input Voltage (V_{DD})

S-80122CL

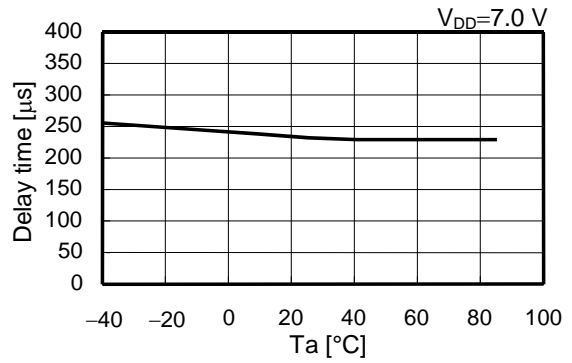


14. Delay Time 2 - Temperature (Ta)

S-80122AL

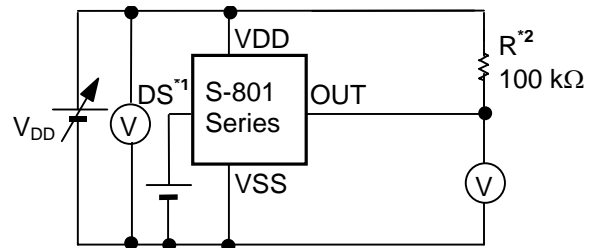
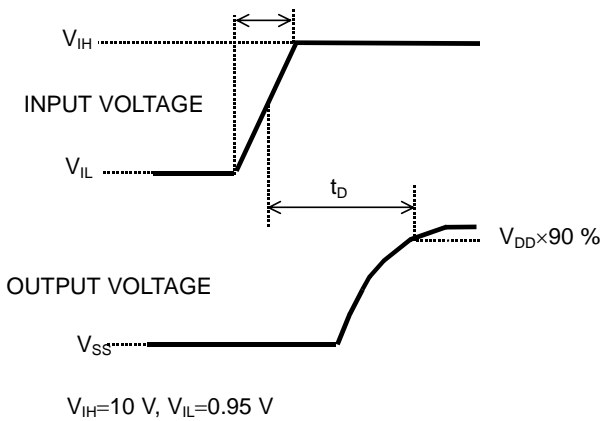
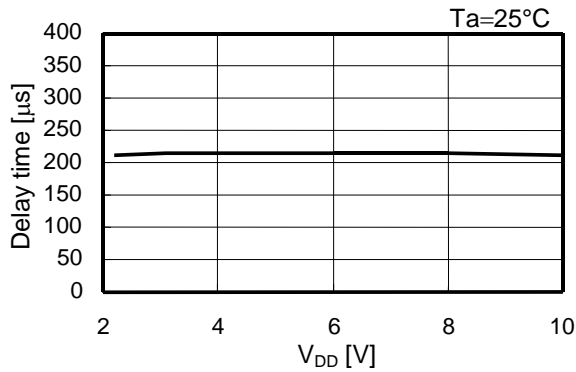


S-80160AL



15. Delay Time 2 - Input Voltage (VDD)

S-80122AN



- *1. Set to V_{DD} or V_{SS}.
- *2. R is not necessary for CMOS output products.

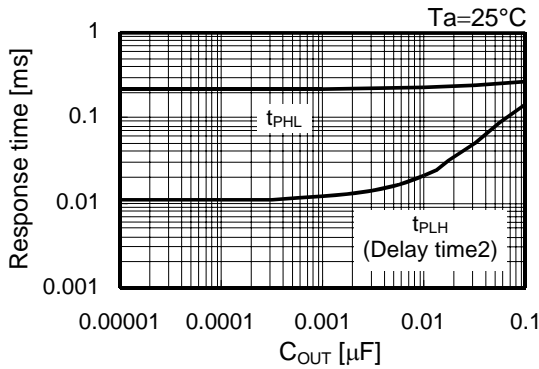
Figure 18 Measurement Condition for Delay Time

Figure 19 Measurement Circuit for Delay Time

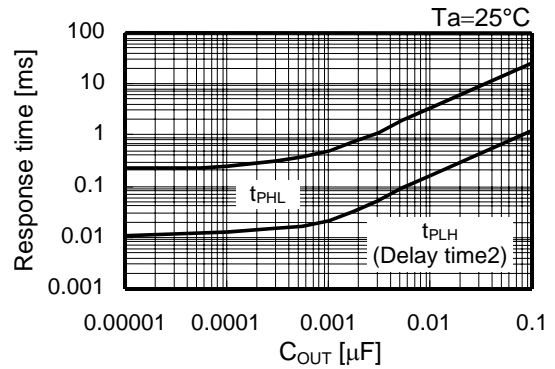
Caution The above connection diagram will not guarantees successful operation. Perform through using the actual application to set the constant.

16. Response Time - Load Capacitor (C_{OUT})

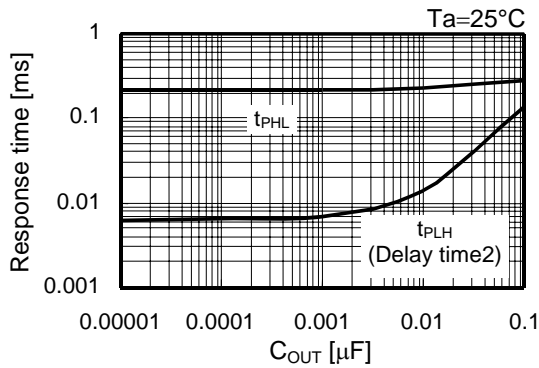
S-80122AL



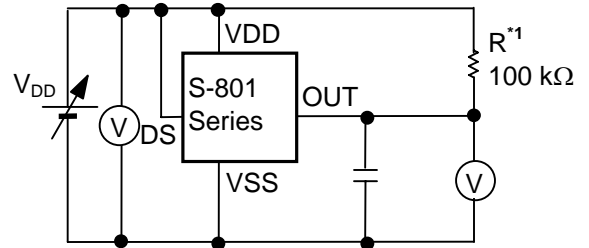
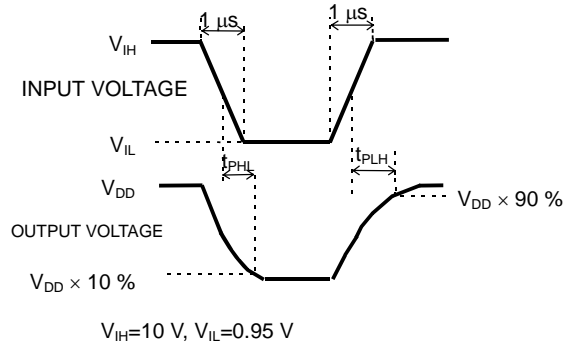
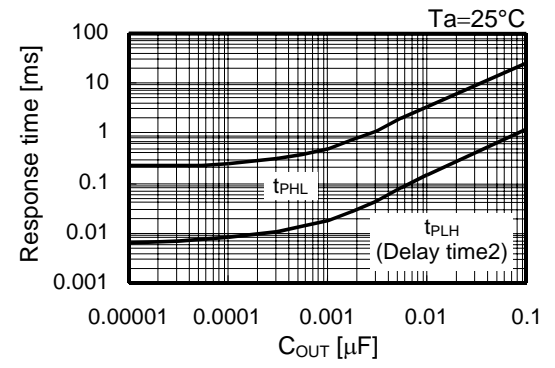
S-80122AN



S-80160AL



S-80160AN



*1. R is not necessary for CMOS output products.

Figure 20 Measurement Condition for Response Time

Figure 21 Measurement Circuit for Response Time

Caution The above connection diagram will not guarantees successful operation. Perform through using the actual application to set the constant.

■ Application Circuit Examples

Microcomputer Reset Circuits

If the power supply voltage to a microcomputer falls below the specified level, an unspecified operation may be performed or the contents of the memory register may be lost. When power supply voltage returns to normal, the microcomputer needs to be initialized before normal operations can be done. Reset circuits protect microcomputers in the event of current being momentarily switched off or lowered.

Reset circuits shown in **Figures 22 to 23** can be easily constructed with the help of the S-801 series that has low operating voltage, a high-precision detection voltage, hysteresis, and a built-in delay circuit.

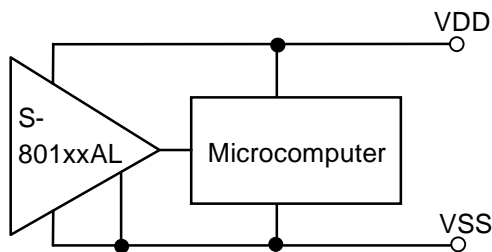
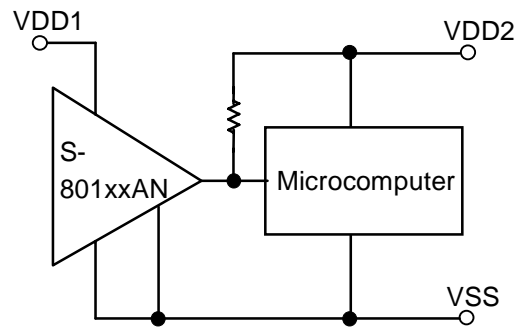


Figure 22 Ret Circuit (S-801xxAL)



(Nch open-drain output products only.)

Figure 23 Reset Circuit (S-801xxAN)

Caution The above connection diagram will not guarantees successful operation. Perform through using the actual application to set the constant.



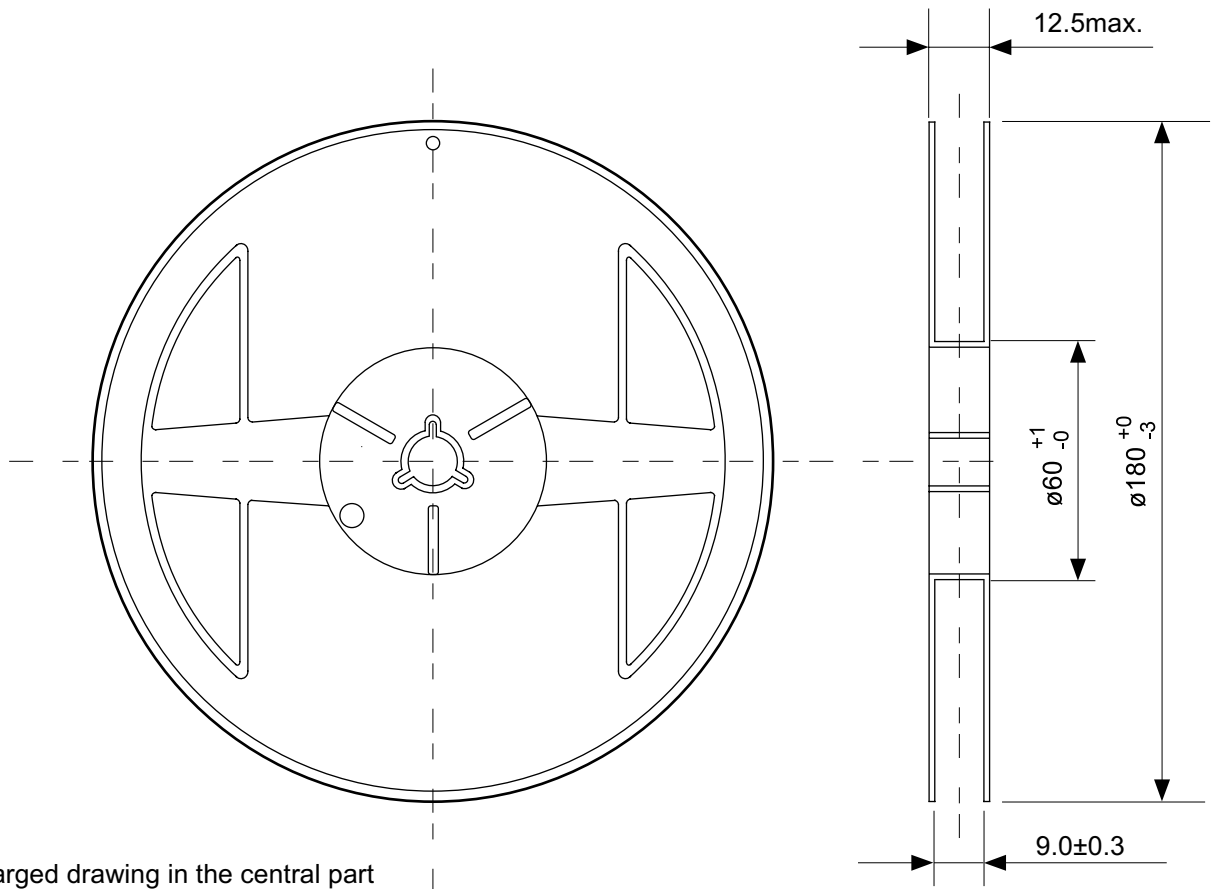
No. MP005-A-P-SD-1.2

TITLE	SOT235-A-PKG Dimensions
No.	MP005-A-P-SD-1.2
SCALE	
UNIT	mm
Seiko Instruments Inc.	

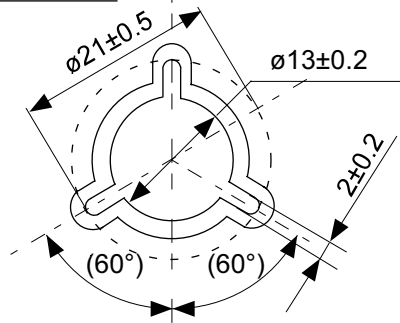


No. MP005-A-C-SD-2.1

TITLE	SOT235-A-Carrier Tape
No.	MP005-A-C-SD-2.1
SCALE	
UNIT	mm
Seiko Instruments Inc.	

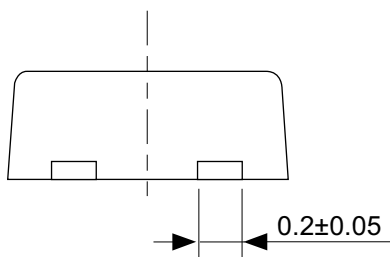
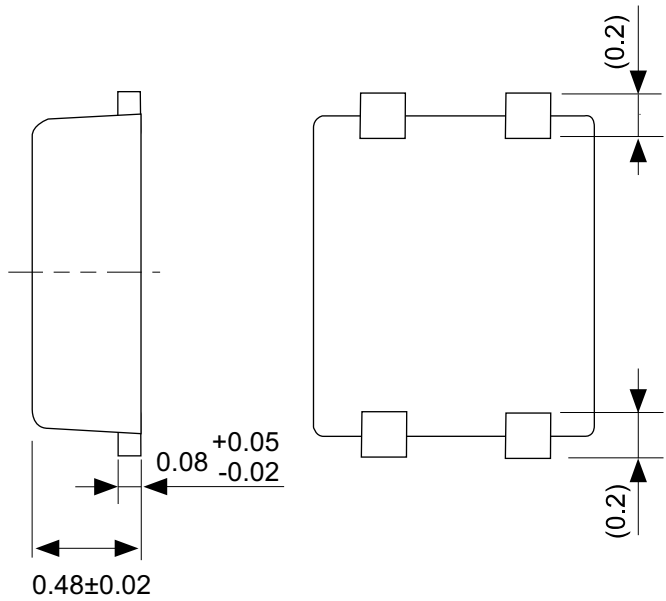
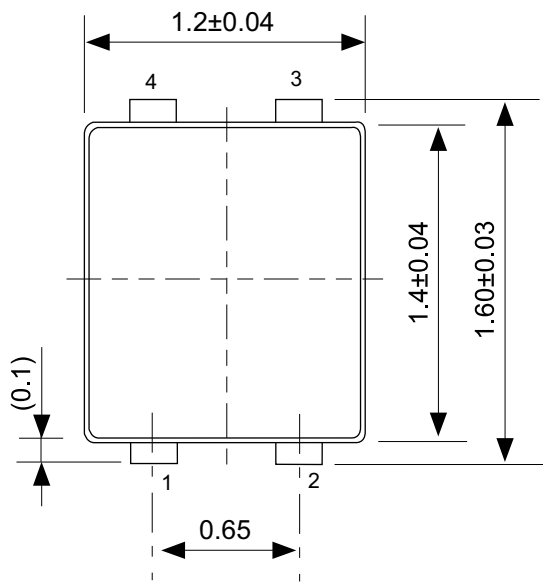


Enlarged drawing in the central part



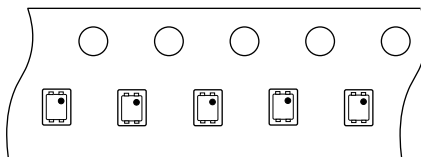
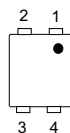
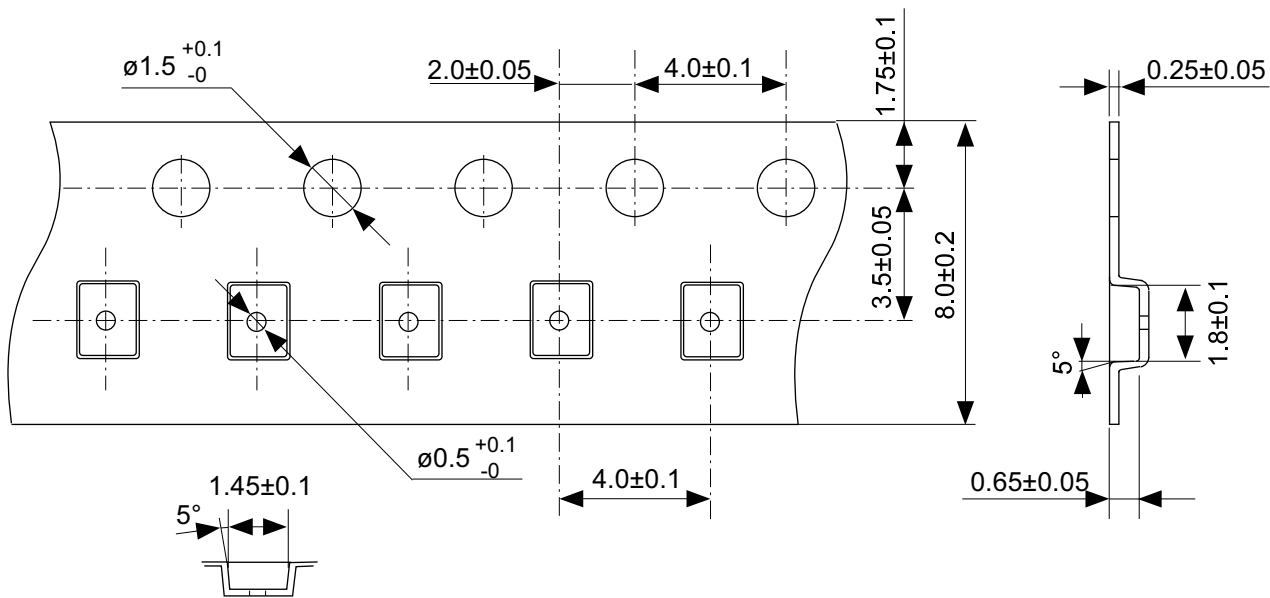
No. MP005-A-R-SD-1.1

TITLE	SOT235-A-Reel		
No.	MP005-A-R-SD-1.1		
SCALE		QTY.	3,000
UNIT	mm		
Seiko Instruments Inc.			



No. PF004-A-P-SD-4.0

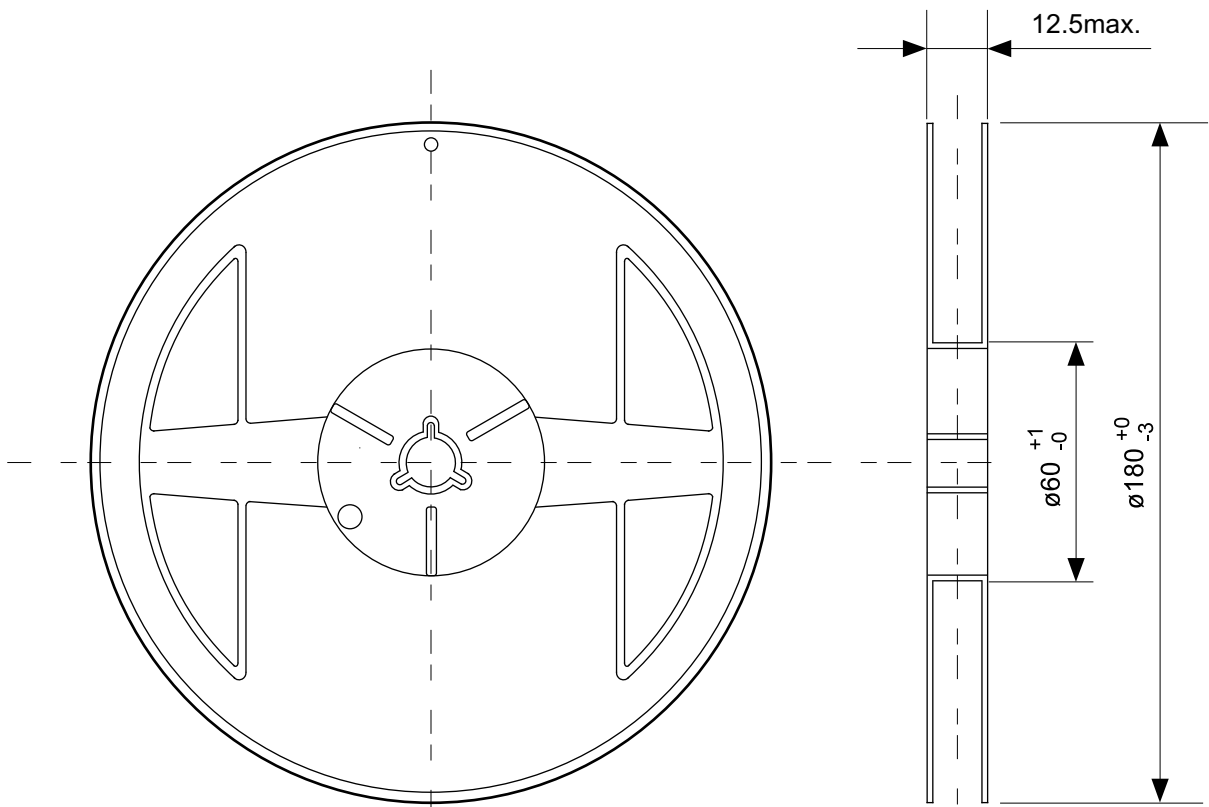
TITLE	SNT-4A-A-PKG Dimensions
No.	PF004-A-P-SD-4.0
SCALE	
UNIT	mm
Seiko Instruments Inc.	



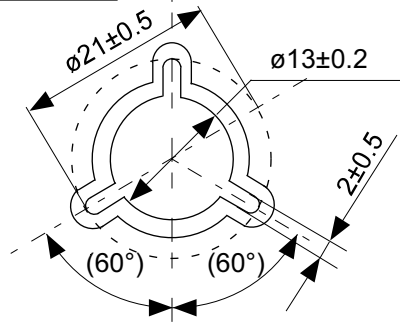
Feed direction

No. PF004-A-C-SD-1.0

TITLE	SNT-4A-A-Carrier Tape
No.	PF004-A-C-SD-1.0
SCALE	
UNIT	mm
Seiko Instruments Inc.	

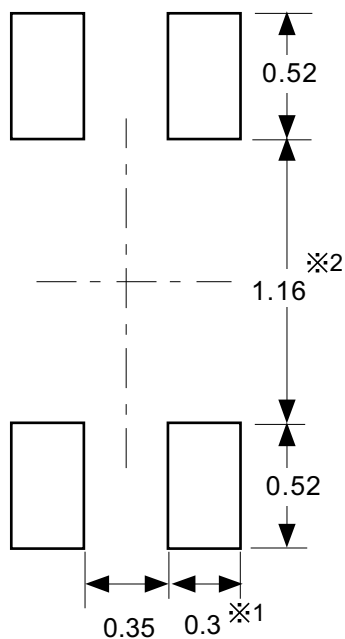


Enlarged drawing in the central part



No. PF004-A-R-SD-1.0

TITLE	SNT-4A-A-Reel		
No.	PF004-A-R-SD-1.0		
SCALE		QTY.	5,000
UNIT	mm		
Seiko Instruments Inc.			



※1. ランドパターンの幅に注意してください (0.25 mm min. / 0.30 mm typ.).

※2. パッケージ中央にランドパターンを広げないでください (1.10 mm ~ 1.20 mm)。

- 注意
1. パッケージのモールド樹脂下にシルク印刷やハンダ印刷などしないでください。
 2. パッケージ下の配線上のソルダーレジストなどの厚みをランドパターン表面から0.03 mm以下にしてください。
 3. マスク開口サイズと開口位置はランドパターンと合わせてください。
 4. 詳細は "SNTパッケージ活用の手引き" を参照してください。

※1. Pay attention to the land pattern width (0.25 mm min. / 0.30 mm typ.).

※2. Do not widen the land pattern to the center of the package (1.10 mm to 1.20 mm).

- Caution**
1. Do not do silkscreen printing and solder printing under the mold resin of the package.
 2. The thickness of the solder resist on the wire pattern under the package should be 0.03 mm or less from the land pattern surface.
 3. Match the mask aperture size and aperture position with the land pattern.
 4. Refer to "SNT Package User's Guide" for details.

※1. 请注意焊盘模式的宽度 (0.25 mm min. / 0.30 mm typ.).

※2. 请勿向封装中间扩展焊盘模式 (1.10 mm ~ 1.20 mm)。

- 注意
1. 请勿在树脂型封装的下面印刷丝网、焊锡。
 2. 在封装下、布线上的阻焊膜厚度 (从焊盘模式表面起) 请控制在0.03 mm以下。
 3. 掩膜的开口尺寸和开口位置请与焊盘模式对齐。
 4. 详细内容请参阅 "SNT封装的应用指南"。

No. PF004-A-L-SD-4.0

TITLE	SNT-4A-A-Land Recommendation
No.	PF004-A-L-SD-4.0
SCALE	
UNIT	mm
Seiko Instruments Inc.	



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