300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR AP2125

General Description

The AP2125 series are 300mA, positive voltage regulator ICs fabricated by CMOS process.

Each of these ICs is equipped with a voltage reference, an error amplifier, a resistor network for setting output voltage, a chip enable circuit, a current limit circuit and OTSD (over temperature shut down) circuit to prevent the IC from over current and over temperature.

The AP2125 series have features of high ripple rejection, low dropout voltage, low noise, high output voltage accuracy and low current consumption which make them ideal for use in various battery-powered apparatus.

The AP2125 have 1.8V, 2.5V, 2.8V, 3.0V, 3.3V, 4.15V and 4.2V fixed voltage versions.

These ICs are available in tiny SC-70-5 and SC-82 packages as well as industry standard SOT-23-3 and SOT-23-5 packages.

Features

- Excellent Ripple Rejection: 70dB Typical (1.8V Version)
- Low Dropout Voltage: 65mV (I_{OUT}=100mA, 3.3V Version)
- Low Standby Current: 0.01μA Typical
- Low Quiescent Current: 60μA Typical
- Extremely Low Noise: 50μVrms Typical
- Maximum Output Current: 300mA (Min.)
- High Output Voltage Accuracy: ±2%
- Compatible with Low ESR Ceramic Capacitor
- Excellent Line/Load Regulation

Applications

- CDMA/GSM Cellular Handsets
- Battery-powered Equipments
- Laptops, Palmtops, Notebook Computers
- Hand-held Instruments
- PCMCIA Cards
- Portable Information Appliances

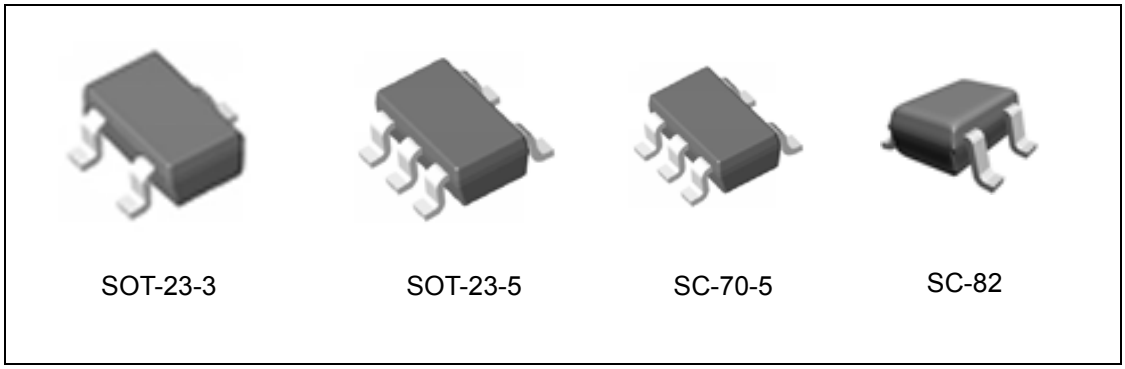


Figure 1. Package Types of AP2125

Pin Configuration

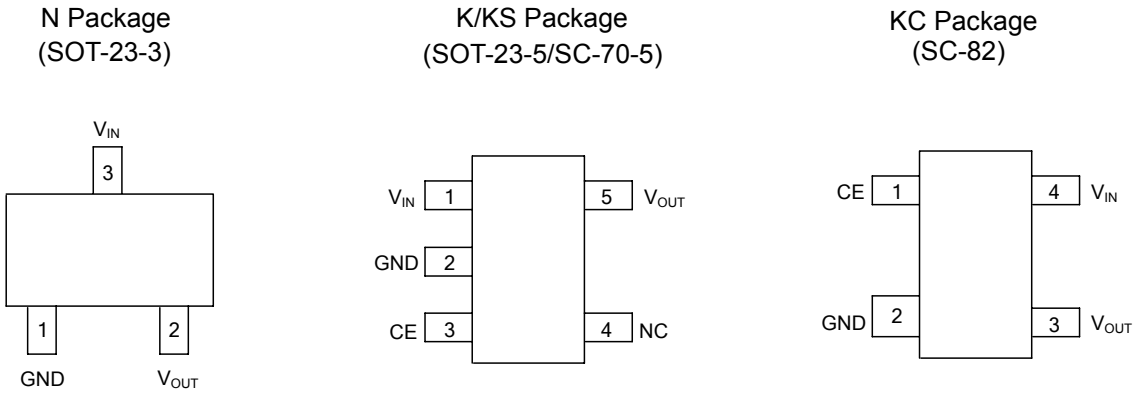
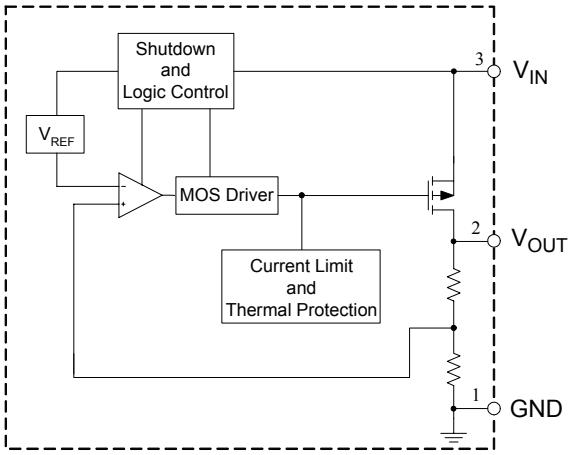


Figure 2. Pin Configuration of AP2125 (Top View)

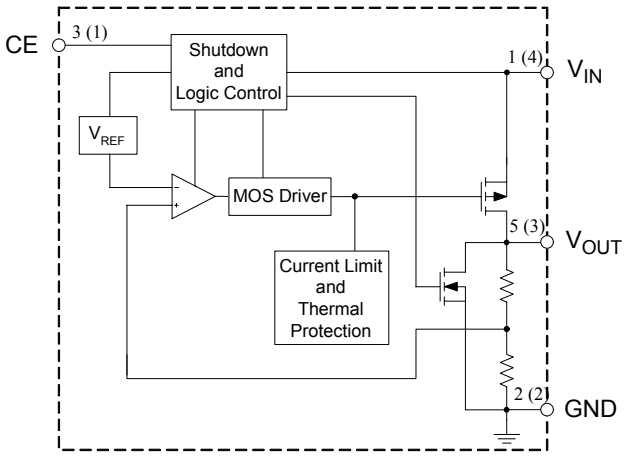
Pin Description

Pin Number			Pin Name	Function
SOT-23-3	SOT-23-5/ SC-70-5	SC-82		
3	1	4	V_{IN}	Input voltage
1	2	2	GND	Ground
	3	1	CE	Active high enable input pin. Logic high=enable, logic low=shutdown
	4		NC	No connection
2	5	3	V_{OUT}	Regulated output voltage

Functional Block Diagram



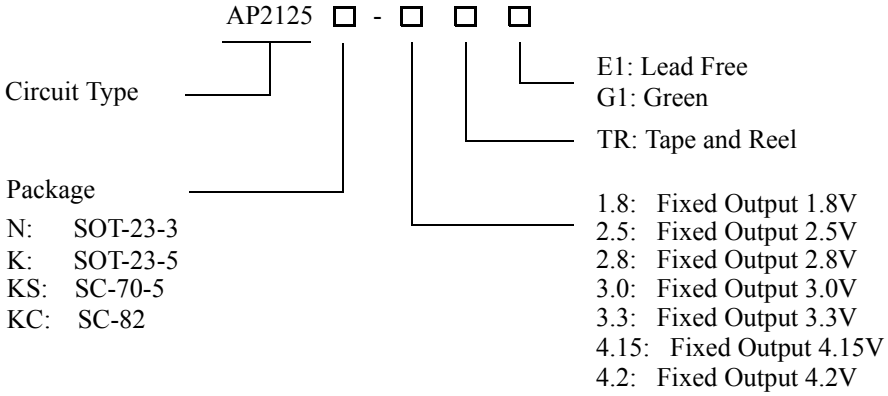
SOT-23-3



A(B)
A SOT-23-5/SC-70-5
B SC-82

Figure 3. Functional Block Diagram of AP2125

Ordering Information



Package	Temperature Range	Part Number		Marking ID		Packing Type
		Lead Free	Green	Lead Free	Green	
SOT-23-3	-40 to 85°C	AP2125N-1.8TRE1	AP2125N-1.8TRG1	EJ2	GJ2	Tape & Reel
		AP2125N-2.5TRE1	AP2125N-2.5TRG1	EJ4	GJ4	Tape & Reel
		AP2125N-2.8TRE1	AP2125N-2.8TRG1	EJ5	GJ5	Tape & Reel
		AP2125N-3.0TRE1	AP2125N-3.0TRG1	EJ6	GJ6	Tape & Reel
		AP2125N-3.3TRE1	AP2125N-3.3TRG1	EJ7	GJ7	Tape & Reel
		AP2125N-4.2TRE1	AP2125N-4.2TRG1	EJ3	GJ3	Tape & Reel
SOT-23-5	-40 to 85°C	AP2125K-1.8TRE1	AP2125K-1.8TRG1	ECB	GCB	Tape & Reel
		AP2125K-2.5TRE1	AP2125K-2.5TRG1	ECD	GCD	Tape & Reel
		AP2125K-2.8TRE1	AP2125K-2.8TRG1	ECE	GCE	Tape & Reel
		AP2125K-3.0TRE1	AP2125K-3.0TRG1	ECF	GCF	Tape & Reel
		AP2125K-3.3TRE1	AP2125K-3.3TRG1	ECG	GCG	Tape & Reel
			AP2125K-4.15TRG1		GCJ	Tape & Reel
		AP2125K-4.2TRE1	AP2125K-4.2TRG1	ECC	GCC	Tape & Reel
SC-70-5	-40 to 85°C	AP2125KS-1.8TRE1	AP2125KS-1.8TRG1	26	B6	Tape & Reel
		AP2125KS-2.5TRE1	AP2125KS-2.5TRG1	35	C5	Tape & Reel
		AP2125KS-2.8TRE1	AP2125KS-2.8TRG1	27	B7	Tape & Reel
		AP2125KS-3.0TRE1	AP2125KS-3.0TRG1	36	C6	Tape & Reel
		AP2125KS-3.3TRE1	AP2125KS-3.3TRG1	28	B8	Tape & Reel
		AP2125KS-4.2TRE1	AP2125KS-4.2TRG1	34	C4	Tape & Reel
SC-82	-40 to 85°C	AP2125KC-1.8TRE1	AP2125KC-1.8TRG1	91	T1	Tape & Reel
		AP2125KC-2.5TRE1	AP2125KC-2.5TRG1	96	T6	Tape & Reel
		AP2125KC-2.8TRE1	AP2125KC-2.8TRG1	92	T2	Tape & Reel
		AP2125KC-3.0TRE1	AP2125KC-3.0TRG1	97	T7	Tape & Reel
		AP2125KC-3.3TRE1	AP2125KC-3.3TRG1	93	T3	Tape & Reel
		AP2125KC-4.2TRE1	AP2125KC-4.2TRG1	95	T5	Tape & Reel

BCD Semiconductor's Pb-free products, as designated with "E1" suffix in the part number, are RoHS compliant. Products with "G1" suffix are available in green packages.

Absolute Maximum Ratings (Note 1)

Parameter	Symbol	Value		Unit
Input Voltage	V_{IN}	6.5		V
Enable Input Voltage	V_{CE}	-0.3 to V_{IN}+0.3		V
Output Current	I_{OUT}	450		mA
Junction Temperature	T_J	150		°C
Storage Temperature Range	T_{STG}	-65 to 150		°C
Lead Temperature (Soldering, 10sec)	T_{LEAD}	260		°C
Thermal Resistance	θ_{JA}	SOT-23-3	200	°C/W
		SOT-23-5	200	
		SC-70-5	300	
		SC-82	300	
ESD (Human Body Model)	ESD	6000		V
ESD (Machine Model)	ESD	400		V

Note 1: Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "Recommended Operating Conditions" is not implied. Exposure to "Absolute Maximum Ratings" for extended periods may affect device reliability.

Recommended Operating Conditions

Parameter	Symbol	Min	Max	Unit
Input Voltage	V_{IN}	V_{OUT}+0.5V	6	V
Operating Ambient Temperature Range	T_A	-40	85	°C

Electrical Characteristics

AP2125-1.8 Electrical Characteristics

(V_{IN}=2.8V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=2.8V 1mA≤I_{OUT}≤30mA	1.764	1.8	1.836	V
Input Voltage	V_{IN}				6	V
Maximum Output Current	$I_{OUT(MAX)}$	V_{IN}-V_{OUT}=1V, V_{OUT}=1.76V	300	360		mA
Load Regulation	V_{RLOAD}	V_{IN}=2.8V 1mA≤I_{OUT}≤300mA		6		mV
Line Regulation	V_{RLINE}	2.8V≤V_{IN}≤6V I_{OUT}=30mA		1		mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		10	12	mV
		I_{OUT}=100mA		100	120	
		I_{OUT}=300mA		300	360	
Quiescent Current	I_Q	V_{IN}=2.8V, I_{OUT}=0mA		60	90	μA
Standby Current	I_{STD}	V_{IN}=2.8V V_{CE} in OFF mode		0.01	1.0	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=100Hz V_{IN}=2.8V		70		dB
		Ripple 0.5Vp-p, f=1KHz V_{IN}=2.8V		70		dB
Output Voltage Temperature Coefficient	$(\Delta V_{OUT}/V_{OUT})/\Delta T$	I_{OUT}=30mA		**±100**		ppm/°C
Short Current Limit	I_{SHORT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	10Hz ≤f≤100kHz		50		μVrms
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.4	V
Thermal Shutdown				160		°C
Thermal Shutdown Hysteresis				25		°C

Electrical Characteristics (Continued)

AP2125-2.5 Electrical Characteristics

(V_{IN}=3.5V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=3.5V 1mA≤I_{OUT}≤30mA	2.45	2.5	2.55	V
Input Voltage	V_{IN}				6	V
Maximum Output Current	$I_{OUT(MAX)}$	V_{IN}-V_{OUT}=1V, V_{OUT}=2.45V	300	360		mA
Load Regulation	V_{RLOAD}	V_{IN}=3.5V 1mA≤I_{OUT}≤300mA		10		mV
Line Regulation	V_{RLINE}	3.5V≤V_{IN}≤6V I_{OUT}=30mA		1		mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		6.5	10	mV
		I_{OUT}=100mA		65	100	
		I_{OUT}=300mA		200	300	
Quiescent Current	I_Q	V_{IN}=3.5V, I_{OUT}=0mA		60	90	μA
Standby Current	I_{STD}	V_{IN}=3.5V V_{CE} in OFF mode		0.01	1.0	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=100Hz V_{IN}=3.5V		65		dB
		Ripple 0.5Vp-p, f=1KHz V_{IN}=3.5V		65		dB
Output Voltage Temperature Coefficient	$(\Delta V_{OUT}/V_{OUT})/\Delta T$	I_{OUT}=30mA		**±100**		ppm/°C
Short Current Limit	I_{SHORT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	10Hz ≤f≤100kHz		50		μVrms
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.4	V
Thermal Shutdown				160		°C
Thermal Shutdown Hysteresis				25		°C

Electrical Characteristics (Continued)

AP2125-2.8 Electrical Characteristics

(V_{IN}=3.8V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=3.8V 1mA≤I_{OUT}≤30mA	2.744	2.8	2.856	V
Input Voltage	V_{IN}				6	V
Maximum Output Current	$I_{OUT(MAX)}$	V_{IN}-V_{OUT}=1V, V_{OUT}=2.74V	300	360		mA
Load Regulation	V_{RLOAD}	V_{IN}=3.8V 1mA≤I_{OUT}≤300mA		11		mV
Line Regulation	V_{RLINE}	3.8V≤V_{IN}≤6V I_{OUT}=30mA		1		mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		6.5	10	mV
		I_{OUT}=100mA		65	100	
		I_{OUT}=300mA		200	300	
Quiescent Current	I_Q	V_{IN}=3.8V, I_{OUT}=0mA		60	90	μA
Standby Current	I_{STD}	V_{IN}=3.8V V_{CE} in OFF mode		0.01	1.0	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=100Hz V_{IN}=3.8V		65		dB
		Ripple 0.5Vp-p, f=1KHz V_{IN}=3.8V		65		dB
Output Voltage Temperature Coefficient	$(\Delta V_{OUT}/V_{OUT})/\Delta T$	I_{OUT}=30mA		**±100**		ppm/°C
Short Current Limit	I_{SHORT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	10Hz ≤f≤100kHz		50		μVrms
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.4	V
Thermal Shutdown				160		°C
Thermal Shutdown Hysteresis				25		°C

Electrical Characteristics (Continued)

AP2125-3.0 Electrical Characteristics

(V_{IN}=4.0V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=4.0V 1mA≤I_{OUT}≤30mA	2.94	3.0	3.06	V
Input Voltage	V_{IN}				6	V
Maximum Output Current	$I_{OUT(MAX)}$	V_{IN}-V_{OUT}=1V, V_{OUT}=2.94V	300	360		mA
Load Regulation	V_{RLOAD}	V_{IN}=4.0V 1mA≤I_{OUT}≤300mA		12		mV
Line Regulation	V_{RLINE}	4.0V≤V_{IN}≤6V I_{OUT}=30mA		1		mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		6.5	10	mV
		I_{OUT}=100mA		65	100	
		I_{OUT}=300mA		200	300	
Quiescent Current	I_Q	V_{IN}=4.0V, I_{OUT}=0mA		60	90	μA
Standby Current	I_{STD}	V_{IN}=4.0V V_{CE} in OFF mode		0.01	1.0	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=100Hz V_{IN}=4.0V		65		dB
		Ripple 0.5Vp-p, f=1KHz V_{IN}=4.0V		65		dB
Output Voltage Temperature Coefficient	$(\Delta V_{OUT}/V_{OUT})/\Delta T$	I_{OUT}=30mA		**±100**		ppm/°C
Short Current Limit	I_{SHORT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	10Hz ≤f≤100kHz		50		μVrms
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.4	V
Thermal Shutdown				160		°C
Thermal Shutdown Hysteresis				25		°C

Electrical Characteristics (Continued)

AP2125-3.3 Electrical Characteristics

(V_{IN}=4.3V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=4.3V 1mA≤I_{OUT}≤30mA	3.234	3.3	3.366	V
Input Voltage	V_{IN}				6	V
Maximum Output Current	$I_{OUT(MAX)}$	V_{IN}-V_{OUT}=1V, V_{OUT}=3.23V	300	360		mA
Load Regulation	V_{RLOAD}	V_{IN}=4.3V 1mA≤I_{OUT}≤300mA		13		mV
Line Regulation	V_{RLINE}	4.3V≤V_{IN}≤6V I_{OUT}=30mA		1		mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		6.5	10	mV
		I_{OUT}=100mA		65	100	
		I_{OUT}=300mA		200	300	
Quiescent Current	I_Q	V_{IN}=4.3V, I_{OUT}=0mA		60	90	μA
Standby Current	I_{STD}	V_{IN}=4.3V V_{CE} in OFF mode		0.01	1.0	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=100Hz V_{IN}=4.3V		65		dB
		Ripple 0.5Vp-p, f=1KHz V_{IN}=4.3V		65		dB
Output Voltage Temperature Coefficient	$(\Delta V_{OUT}/V_{OUT})/\Delta T$	I_{OUT}=30mA		**±100**		ppm/°C
Short Current Limit	I_{SHORT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	10Hz ≤f≤100kHz		50		μVrms
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.4	V
Thermal Shutdown				160		°C
Thermal Shutdown Hysteresis				25		°C

Electrical Characteristics (Continued)

AP2125-4.15 Electrical Characteristics

(V_{IN}=5.15V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=5.15V 1mA≤I_{OUT}≤30mA	4.067	4.15	4.233	V
Input Voltage	V_{IN}				6	V
Maximum Output Current	$I_{OUT(MAX)}$	V_{IN}-V_{OUT}=1V, V_{OUT}=4.06V	300	360		mA
Load Regulation	V_{RLOAD}	V_{IN}=5.15V 1mA≤I_{OUT}≤300mA		13		mV
Line Regulation	V_{RLINE}	5.15V≤V_{IN}≤6V I_{OUT}=30mA		1		mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		6.5	10	mV
		I_{OUT}=100mA		65	100	
		I_{OUT}=300mA		200	300	
Quiescent Current	I_Q	V_{IN}=5.15V, I_{OUT}=0mA		60	90	μA
Standby Current	I_{STD}	V_{IN}=5.15V V_{CE} in OFF mode		0.01	1.0	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=100Hz V_{IN}=5.15V		65		dB
		Ripple 0.5Vp-p, f=1KHz V_{IN}=5.15V		65		dB
Output Voltage Temperature Coefficient	$(\Delta V_{OUT}/V_{OUT})/\Delta T$	I_{OUT}=30mA		**±100**		ppm/°C
Short Current Limit	I_{SHORT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	10Hz ≤f≤100kHz		50		μVrms
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.4	V
Thermal Shutdown				160		°C
Thermal Shutdown Hysteresis				25		°C

Electrical Characteristics (Continued)

AP2125-4.2 Electrical Characteristics

(V_{IN}=5.2V, T_A=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=5.2V 1mA≤I_{OUT}≤30mA	4.116	4.2	4.284	V
Input Voltage	V_{IN}				6	V
Maximum Output Current	$I_{OUT(MAX)}$	V_{IN}-V_{OUT}=1V, V_{OUT}=4.12V	300	360		mA
Load Regulation	V_{RLOAD}	V_{IN}=5.2V 1mA≤I_{OUT}≤300mA		13		mV
Line Regulation	V_{RLINE}	5.2V≤V_{IN}≤6V I_{OUT}=30mA		1		mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		6.5	10	mV
		I_{OUT}=100mA		65	100	
		I_{OUT}=300mA		200	300	
Quiescent Current	I_Q	V_{IN}=5.2V, I_{OUT}=0mA		60	90	μA
Standby Current	I_{STD}	V_{IN}=5.2V V_{CE} in OFF mode		0.01	1.0	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p V_{IN}=5.2V, f=100Hz		65		dB
		Ripple 0.5Vp-p V_{IN}=5.2V, f=1KHz		65		dB
Output Voltage Temperature Coefficient	$(\Delta V_{OUT}/V_{OUT})/\Delta T$	I_{OUT}=30mA		**±100**		ppm/°C
Short Current Limit	I_{SHORT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	10Hz ≤f≤100kHz		50		μVrms
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.4	V
Thermal Shutdown				160		°C
Thermal Shutdown Hysteresis				25		°C

Typical Performance Characteristics

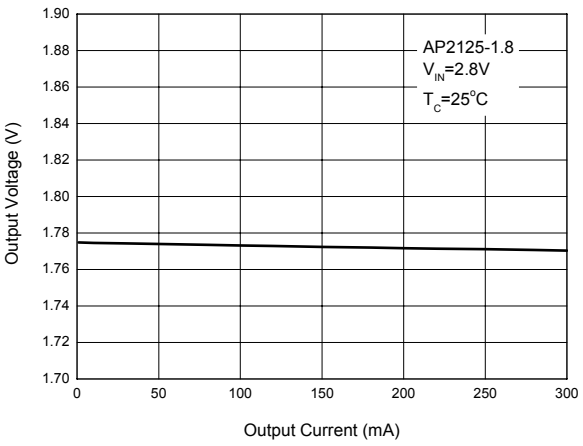


Figure 4. Output Voltage vs. Output Current

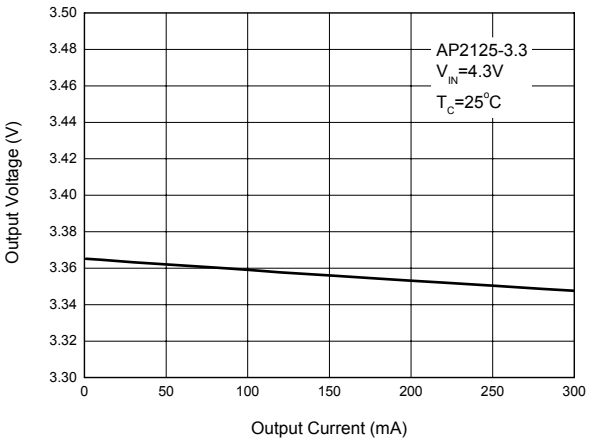


Figure 5. Output Voltage vs. Output Current

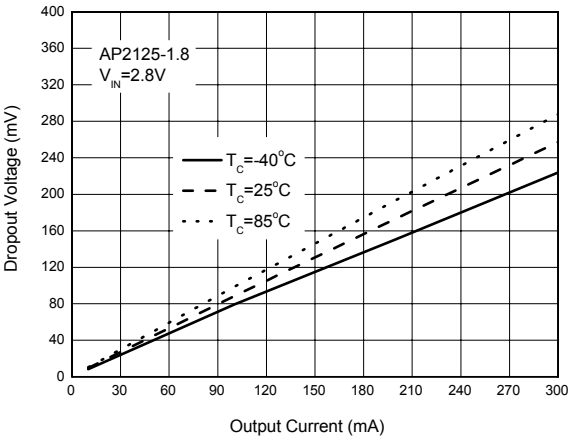


Figure 6. Dropout Voltage vs. Output Current

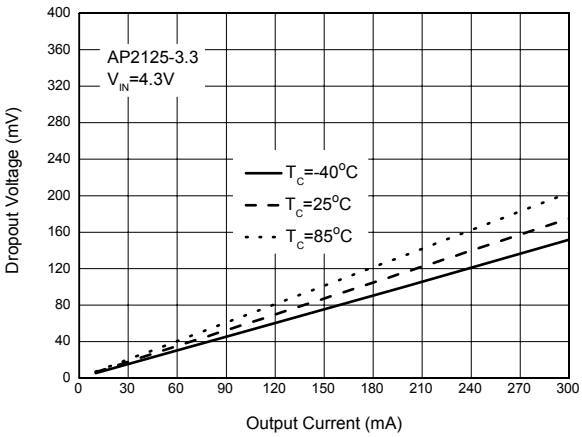


Figure 7. Dropout Voltage vs. Output Current

Typical Performance Characteristics (Continued)

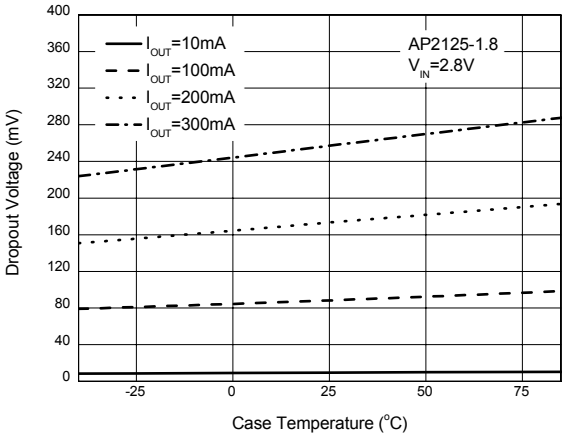


Figure 8. Dropout Voltage vs. Case Temperature

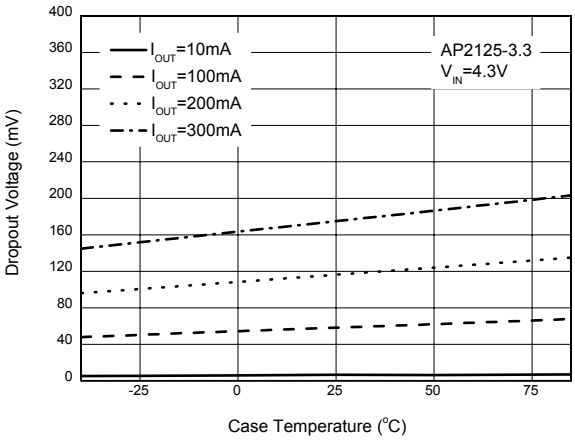


Figure 9. Dropout Voltage vs. Case Temperature

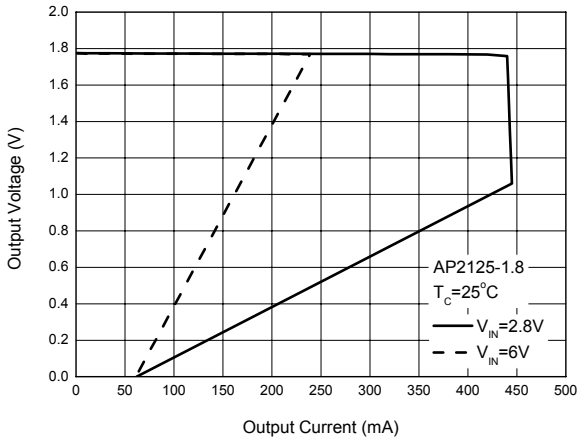


Figure 10. Current Limit

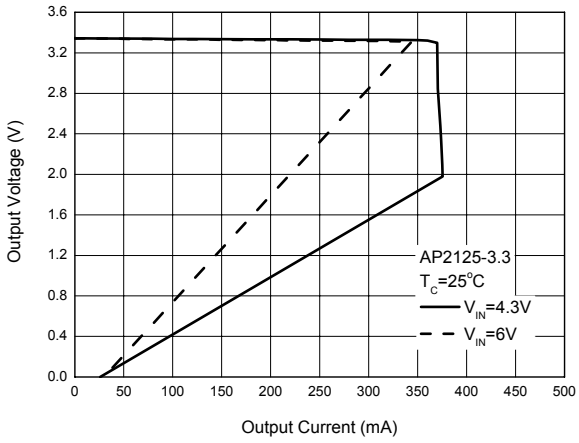


Figure 11. Current Limit

Typical Performance Characteristics (Continued)

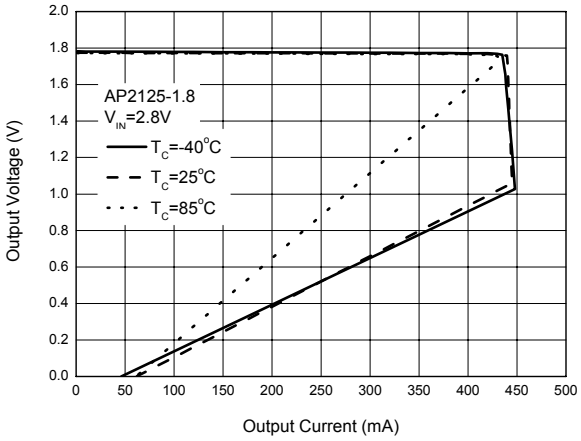


Figure 12. Current Limit

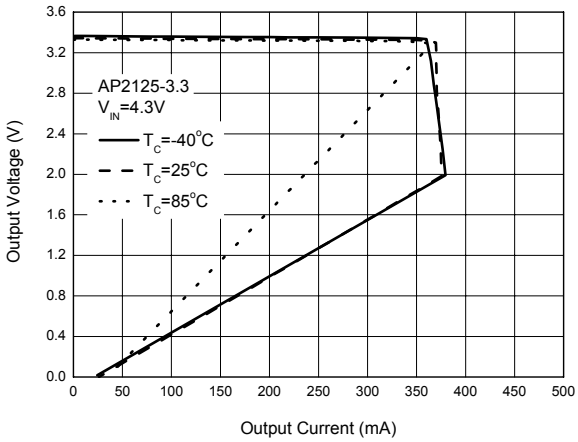


Figure 13. Current Limit

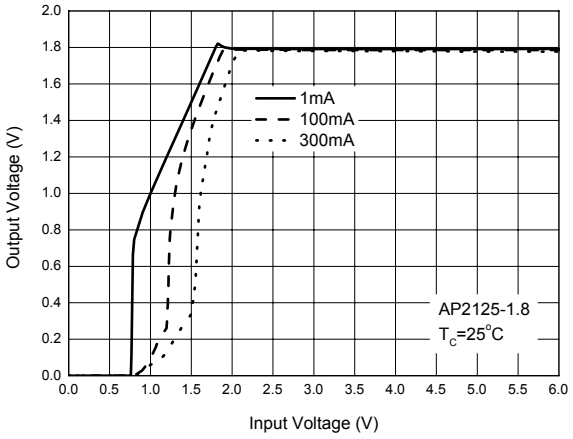


Figure 14. Output Voltage vs. Input Voltage

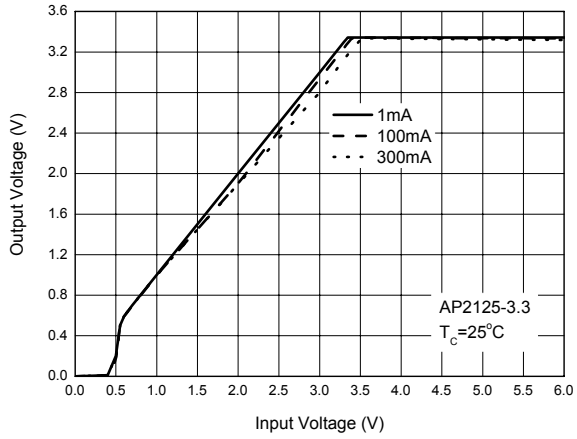


Figure 15. Output Voltage vs. Input Voltage

Typical Performance Characteristics (Continued)

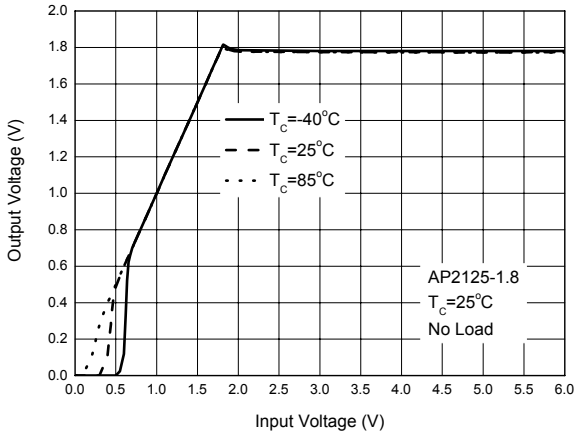


Figure 16. Output Voltage vs. Input Voltage

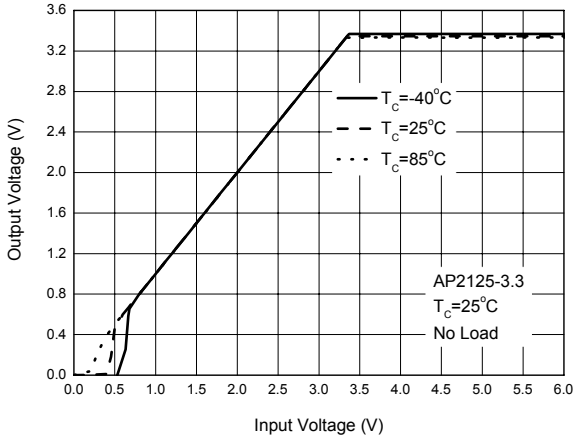


Figure 17. Output Voltage vs. Input Voltage

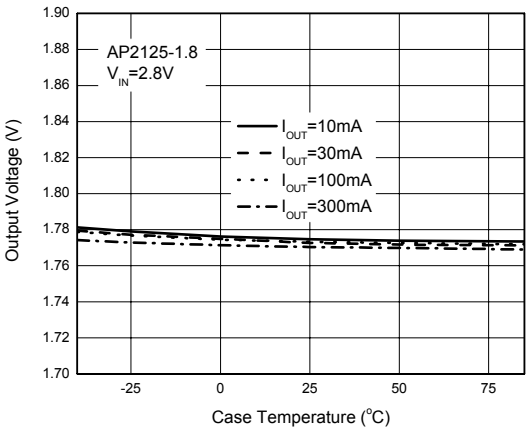


Figure 18. Output Voltage vs. Case Temperature

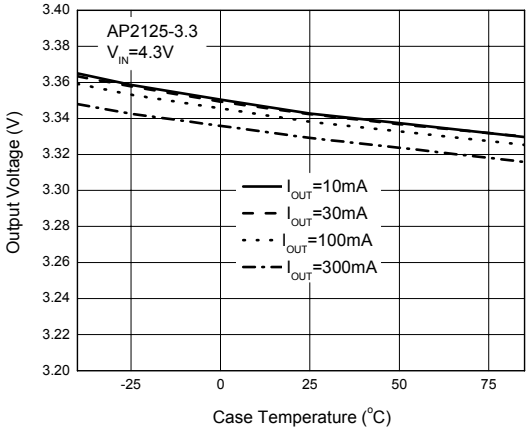


Figure 19. Output Voltage vs. Case Temperature

Typical Performance Characteristics (Continued)

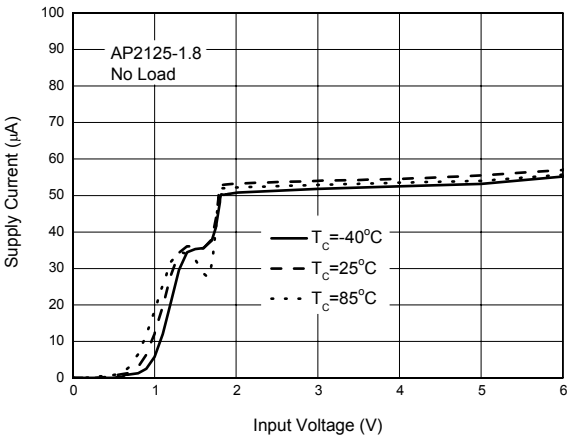


Figure 20. Supply Current vs. Input Voltage

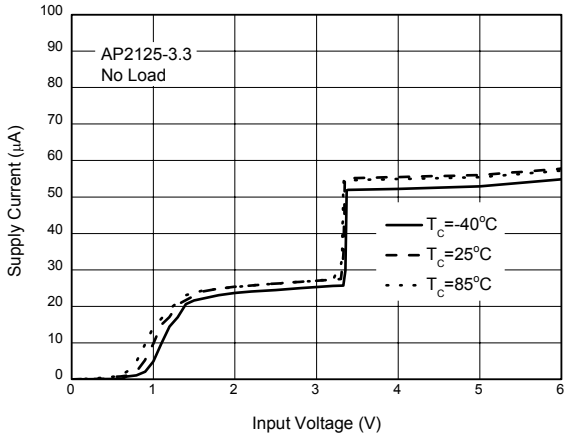


Figure 21. Supply Current vs. Input Voltage

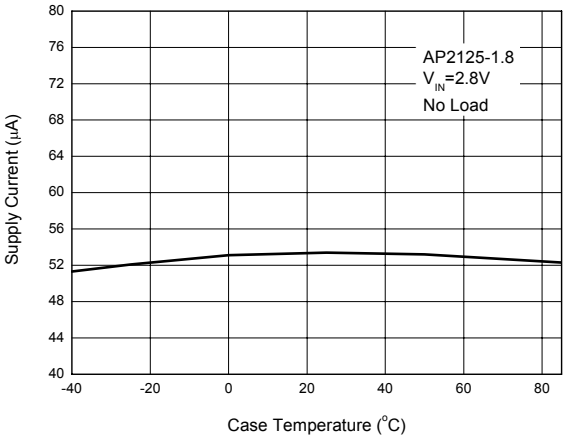


Figure 22. Supply Current vs. Case Temperature

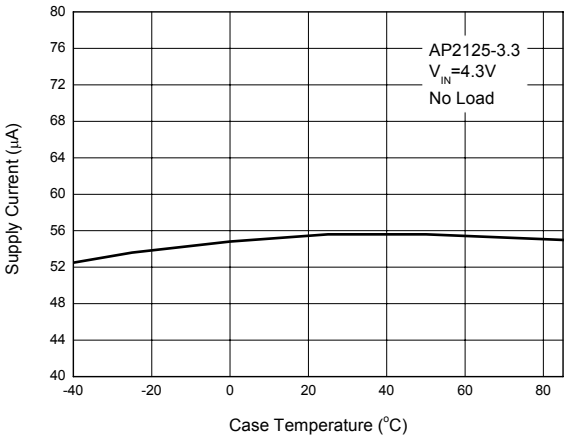


Figure 23. Supply Current vs. Case Temperature

Typical Performance Characteristics (Continued)

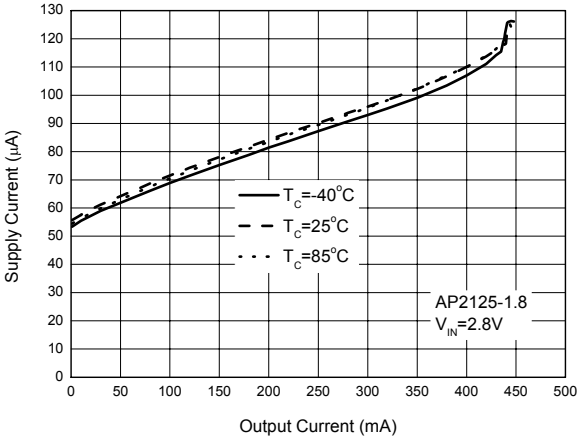


Figure 24. Supply Current vs. Output Current

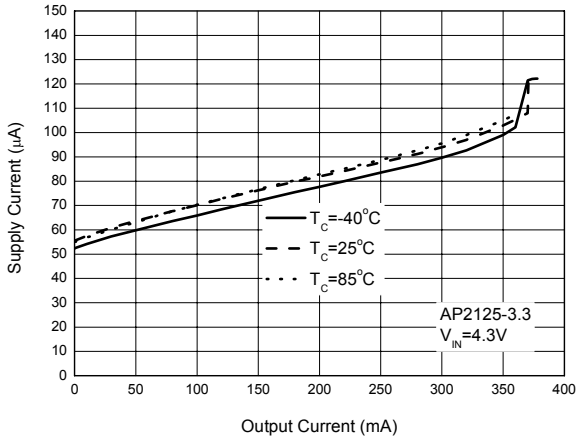


Figure 25. Supply Current vs. Output Current

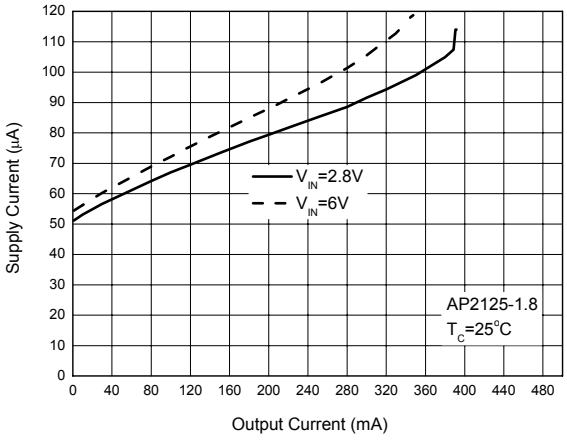


Figure 26. Supply Current vs. Output Current

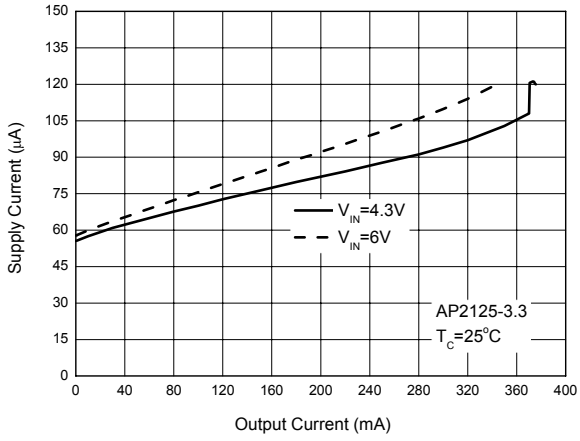


Figure 27. Supply Current vs. Output Current

Typical Performance Characteristics (Continued)

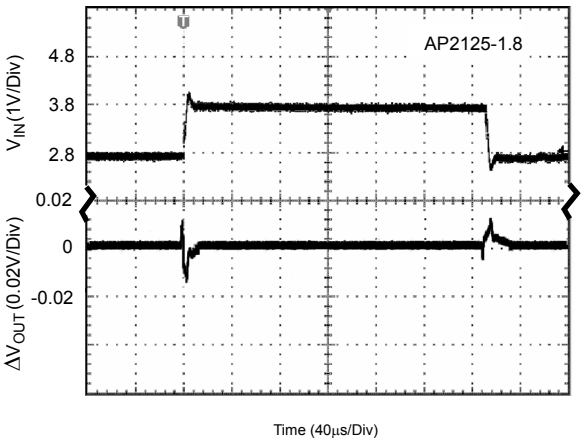


Figure 28. Line Transient
(Conditions: I_{OUT}=30mA, C_{OUT}=1μF, V_{IN}=2.8 to 3.8V)

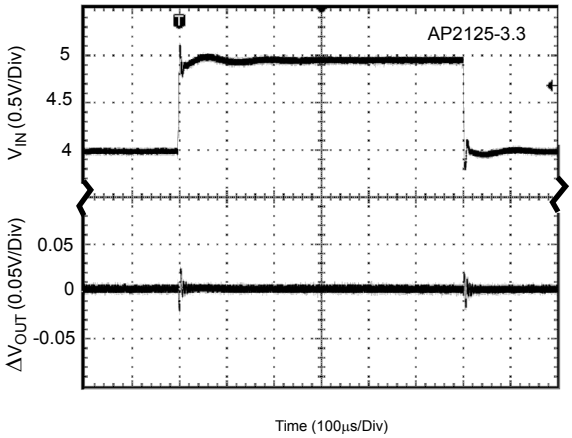


Figure 29. Line Transient
(Conditions: I_{OUT}=30mA, C_{OUT}=1μF, V_{IN}=4 to 5V)

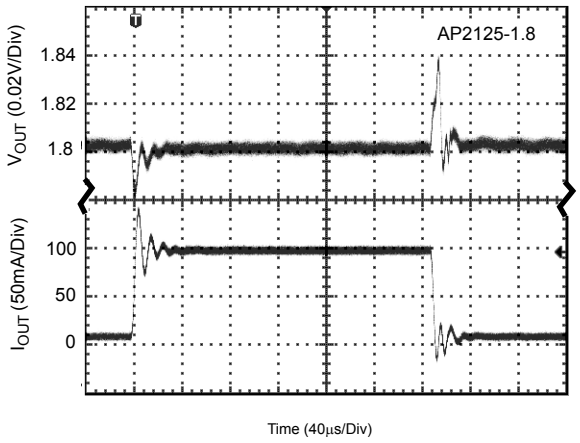


Figure 30. Load Transient
(Conditions: I_{OUT}=10 to 100mA, C_{IN}=1μF,
C_{OUT}=1μF, V_{IN}=2.8 V)

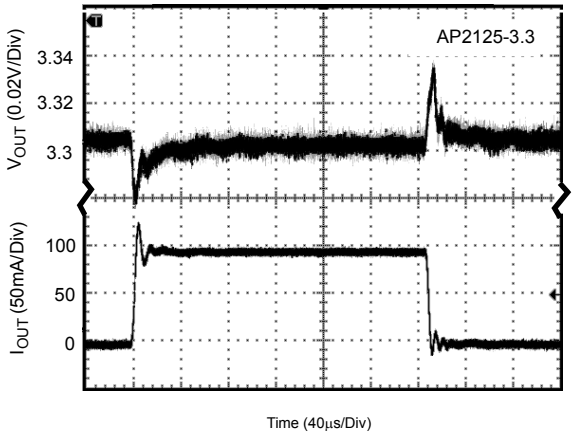


Figure 31. Load Transient
(Conditions: I_{OUT}=10 to 100mA, C_{IN}=1μF,
C_{OUT}=1μF, V_{IN}=4.3 V)

Typical Performance Characteristics (Continued)

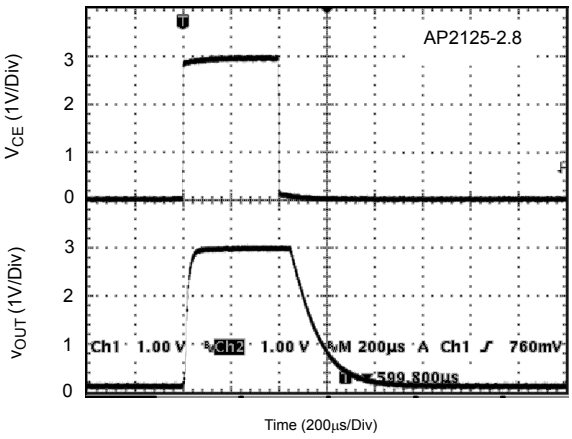


Figure 32. Enable Input Response and Auto-discharge (Conditions: V_{CE}=0 to 3V, C_{IN}=1µF, C_{OUT}=1µF, V_{IN}=3V, no load)

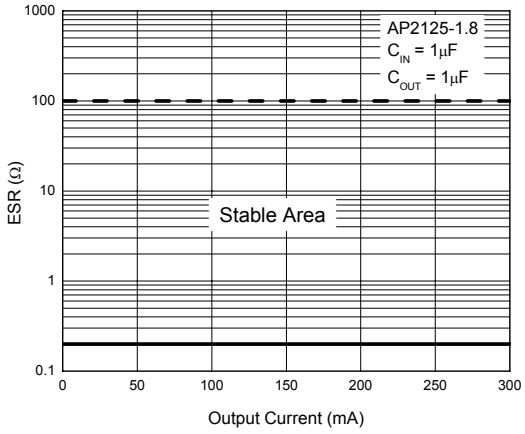


Figure 33. ESR vs. Output Current

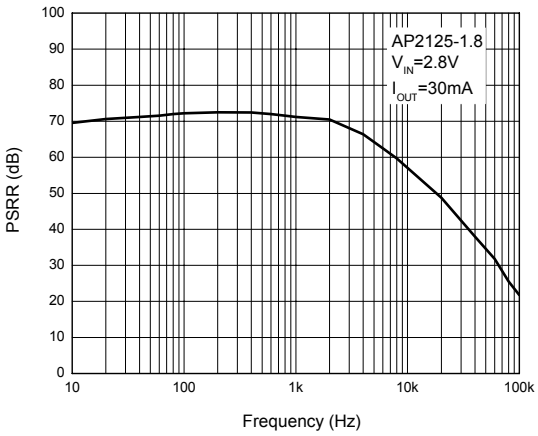


Figure 34. PSRR

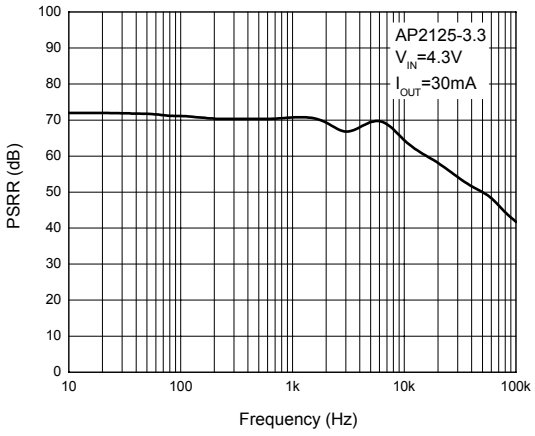


Figure 35. PSRR

Typical Performance Characteristics (Continued)

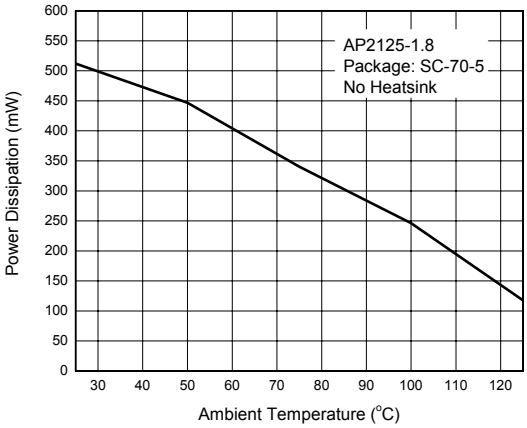


Figure 36. Power Dissipation vs. Ambient Temperature

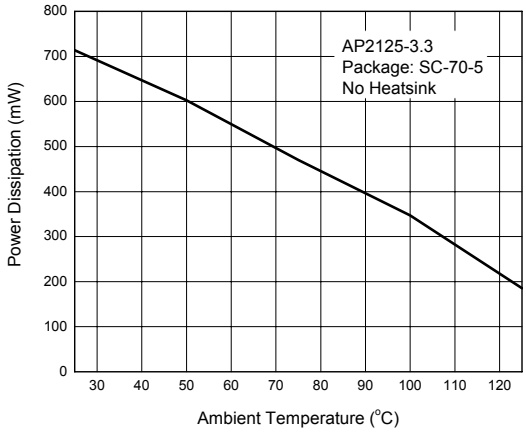


Figure 37. Power Dissipation vs. Ambient Temperature

Typical Application

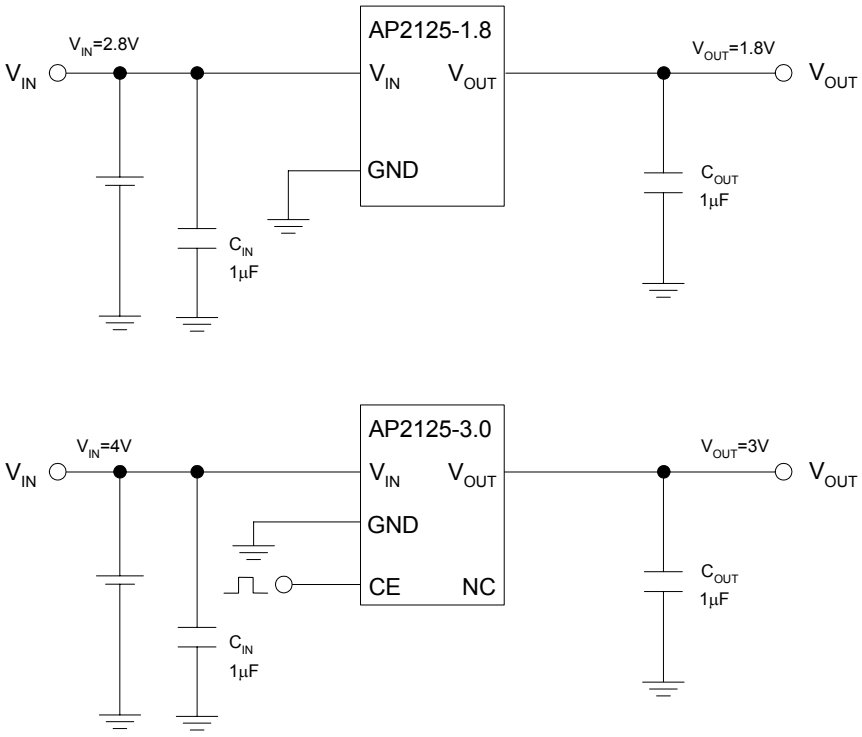
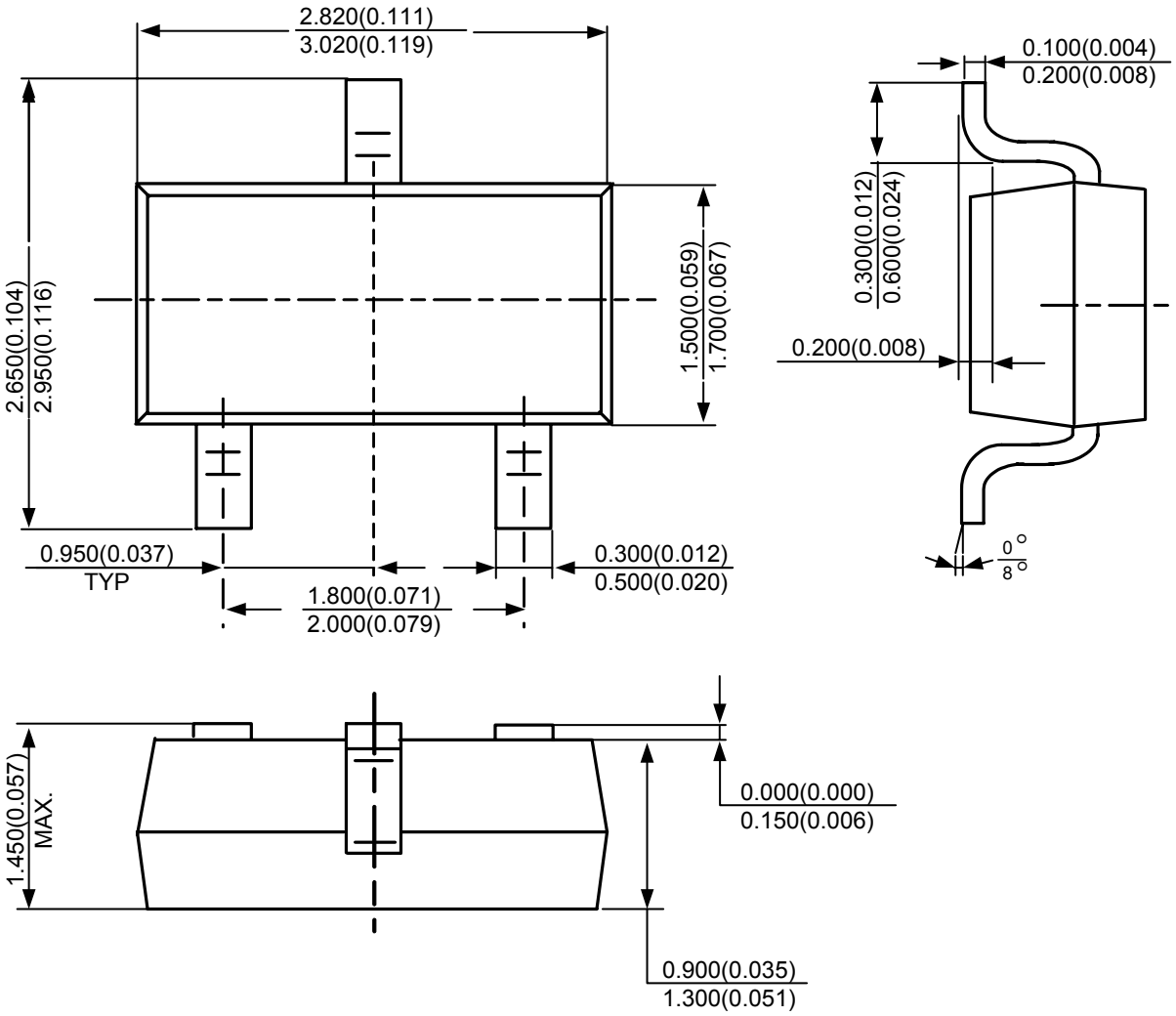


Figure 38. Typical Application of AP2125

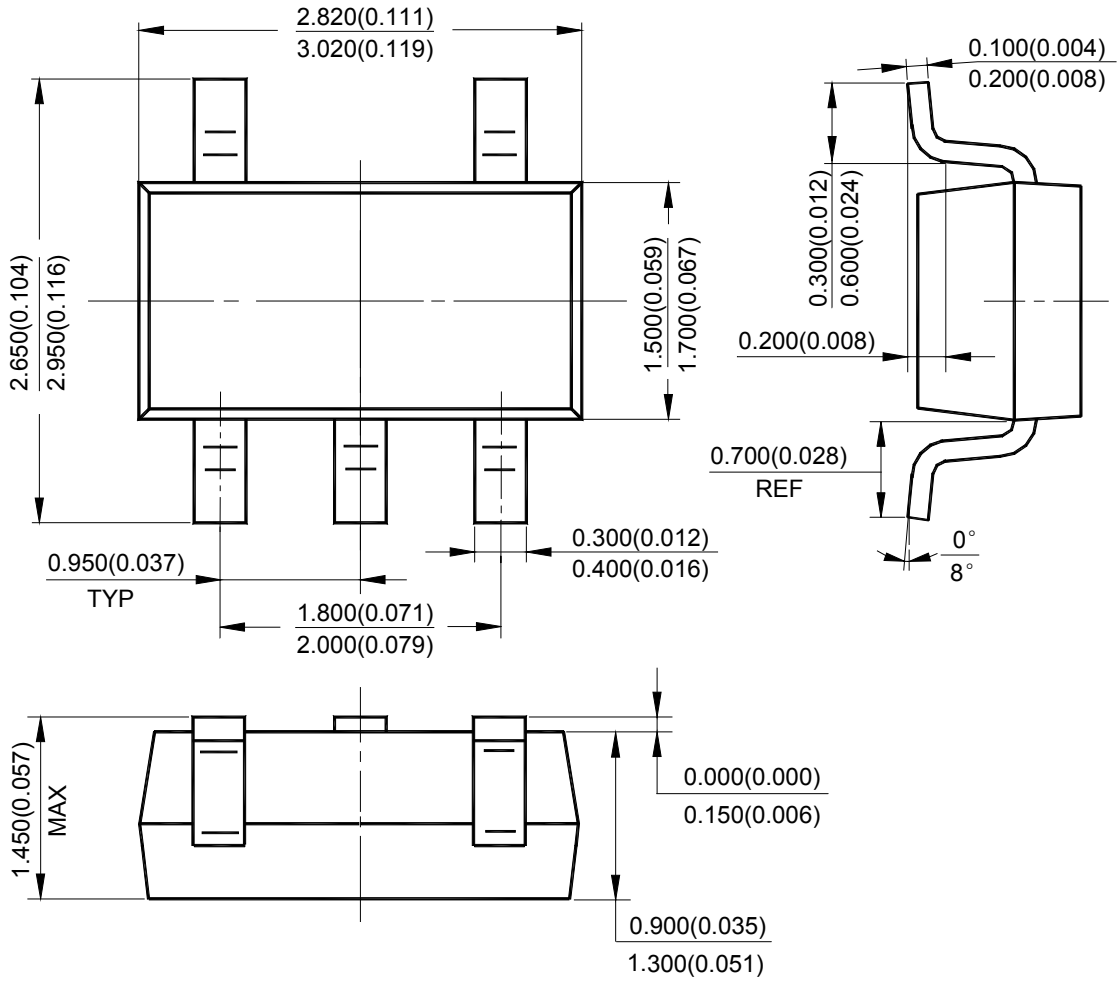
Mechanical Dimensions

SOT-23-3 **Unit: mm(inch)**



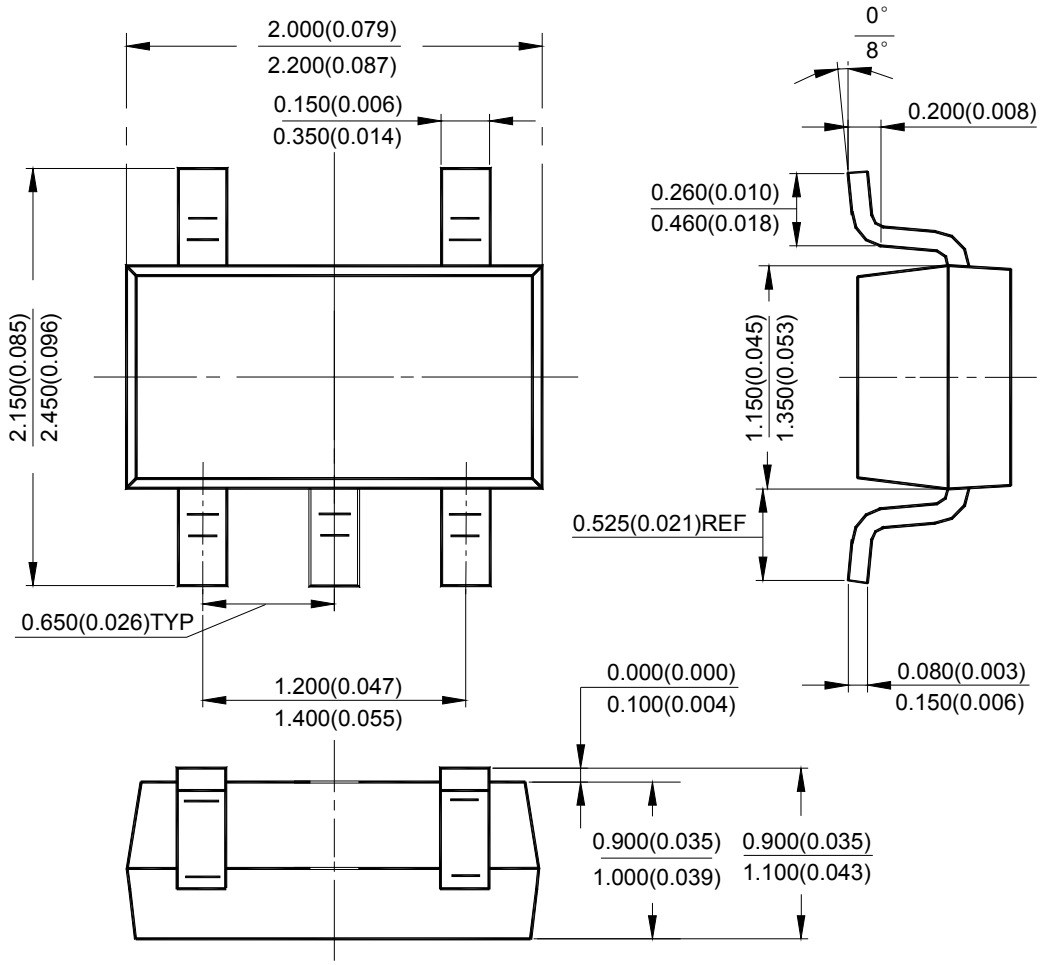
Mechanical Dimensions (Continued)

SOT-23-5 **Unit: mm(inch)**



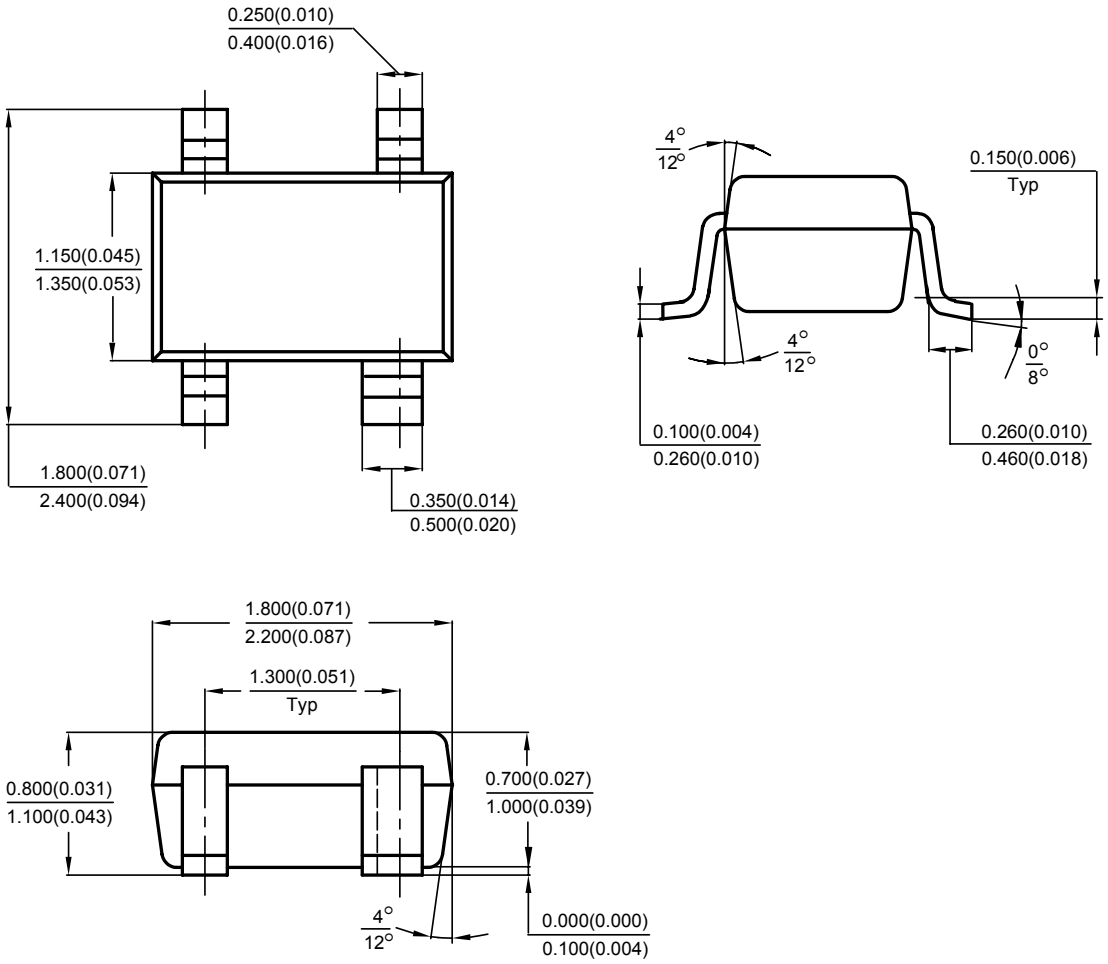
Mechanical Dimensions (Continued)

SC-70-5 **Unit: mm(inch)**



Mechanical Dimensions (Continued)

SC-82 **Unit: mm(inch)**



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MAIN SITE

- Headquarters
BCD Semiconductor Manufacturing Limited
No. 1600, Zi Xing Road, Shanghai ZiZhu Science-based Industrial Park, 200241, China
Tel: +86-21-24162266, Fax: +86-21-24162277

- Wafer Fab
Shanghai SIM-BCD Semiconductor Manufacturing Co., Ltd.
800 Yi Shan Road, Shanghai 200233, China
Tel: +86-21-6485 1491, Fax: +86-21-5450 0008

REGIONAL SALES OFFICE

Shenzhen Office
Shanghai SIM-BCD Semiconductor Manufacturing Co., Ltd., Shenzhen Office
Unit A Room 1203, Skyworth Bldg., Gaoxin Ave.1.S., Nanshan District, Shenzhen, China
Tel: +86-755-8826 7951
Fax: +86-755-8826 7865

Taiwan Office
BCD Semiconductor (Taiwan) Company Limited
4F, 298-1, Rui Guang Road, Nei-Hu District, Taipei, Taiwan
Tel: +886-2-2656 2808
Fax: +886-2-2656 2806

USA Office
BCD Semiconductor Corp.
30920 Huntwood Ave. Hayward, CA 94544, USA
Tel : +1-510-324-2988
Fax: +1-510-324-2788

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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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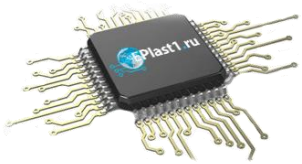
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.