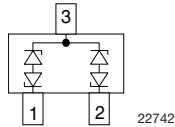
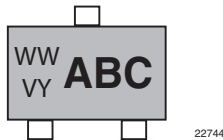


Bidirectional Symmetrical (BiSy) Low Capacitance, Dual-Line ESD-Protection Diode in SOT-323


FEATURES

- For CAN and FLEX-Bus applications
- Small SOT-323 package
- 2-line ESD-protection
- Working range ± 26.5 V
- Low leakage current $I_R < 0.05 \mu\text{A}$
- Low load capacitance $C_D < 15$ pF
- ESD-protection acc. IEC 61000-4-2
 ± 30 kV contact discharge
 ± 30 kV air discharge
- ESD capability according to AEC-Q101:
human body model: class H3B: > 8 kV
- e3 - pins plated with tin (Sn)
- AEC-Q101 qualified available
- Material categorization: for definitions of compliance
please see www.vishay.com/doc?99912


RoHS
COMPLIANT

MARKING (example only)


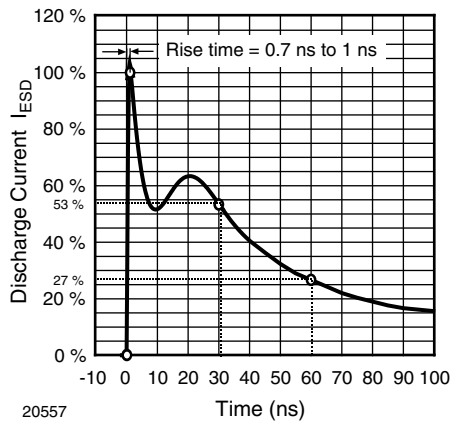
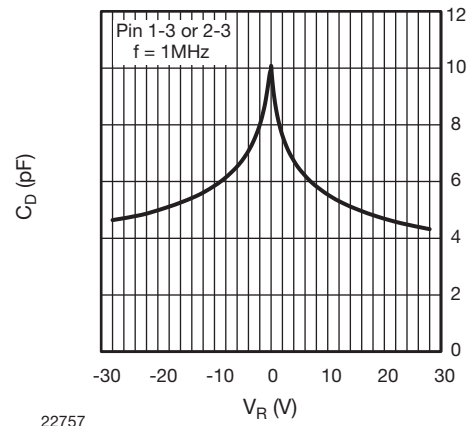
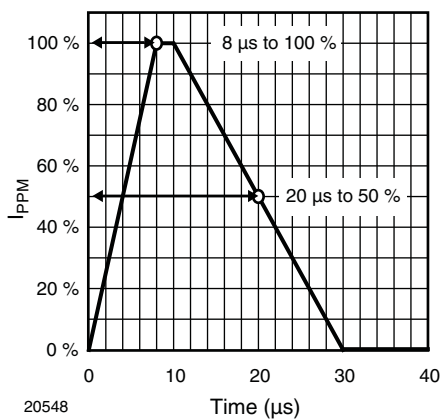
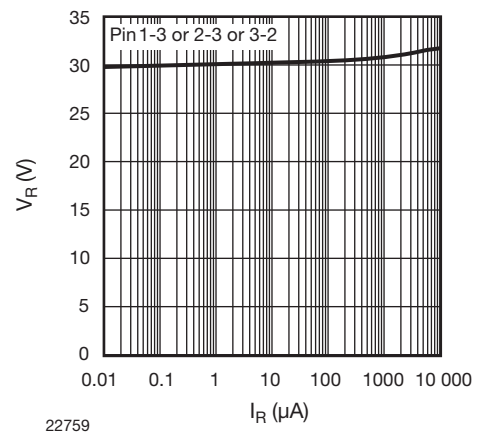
ABC = type code (see table below)
 WW = date code working week
 VY = date code year

ORDERING INFORMATION							
PART NUMBER (EXAMPLE)	ENVIRONMENTAL AND QUALITY CODE			PACKAGING CODE		ORDERING CODE (EXAMPLE)	
	AEC-Q101 QUALIFIED	RoHS-COMPLIANT + LEAD (Pb)-FREE TERMINATIONS		TIN PLATED	3K PER 7" REEL (8 mm TAPE) 15K/BOX = MOQ		10K PER 13" REEL (8 mm TAPE) 10K/BOX = MOQ
		STANDARD	GREEN				
VCAN26A2-03G	-	E		3	-08		VCAN26A2-03G-E3-08
VCAN26A2-03G	H	E		3	-08		VCAN26A2-03GHE3-08
VCAN26A2-03G	-	E		3		-18	VCAN26A2-03G-E3-18
VCAN26A2-03G	H	E		3		-18	VCAN26A2-03GHE3-18

PACKAGE DATA						
DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
VCAN26A2-03G	SOT-323	6A2	5.65 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C

ABSOLUTE MAXIMUM RATINGS					
PARAMETER	TEST CONDITIONS		SYMBOL	VALUE	UNIT
Peak pulse current	$T_A = 25$ °C, acc. IEC 61000-4-5; $t_p = 8/20$ μs ; single shot		I_{PPM}	3	A
Peak pulse power	$T_A = 25$ °C; pin 1 or 2 to pin 3; acc. IEC 61000-4-5; $t_p = 8/20$ μs ; single shot		P_{PP}	150	W
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses, $T_A = 25$ °C		V_{ESD}	± 30	kV
	Air discharge acc. IEC 61000-4-2; 10 pulses, $T_A = 25$ °C			± 30	kV
Operating temperature	Junction temperature		T_J	-55 to +150	°C
Storage temperature			T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (pin 1 to 3, 3 to 1, 2 to 3, or 3 to 2) ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)						
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Protection paths	Number of lines which can be protected	$N_{channel}$	-	-	2	lines
Reverse stand-off voltage	Max. reverse working voltage	V_{RWM}	-	-	26.5	V
Reverse voltage	At $I_R = 0.05\text{ }\mu\text{A}$	V_R	26.5	-	-	V
Reverse current	At $V_{RWM} = 26.5\text{ V}$	I_R	-	-	0.05	μA
Reverse breakdown voltage	At $I_R = 1\text{ mA}$	V_{BR}	28	30	32	V
Reverse clamping voltage	At $I_{PP} = 1\text{ A}$; $t_p = 8/20\text{ }\mu\text{s}$	V_C	-	33	40	V
	At $I_{PP} = I_{PPM} = 3\text{ A}$; $t_p = 8/20\text{ }\mu\text{s}$	V_C	-	40	50	V
Capacitance	At $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	C_D	-	10	15	pF
	Diode capacitance matching at $V_R = 0\text{ V}$, $T_J = -40\text{ }^{\circ}\text{C}$ to $125\text{ }^{\circ}\text{C}$ / C_{D13} vs. C_{D23}	C_D	-	-	2	pF

TYPICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

 Fig. 1 - ESD Discharge Current Wave Form
acc. IEC 61000-4-2 (330 Ω / 150 pF)

 Fig. 3 - Typical Capacitance C_D vs. Reverse Voltage V_R

 Fig. 2 - 8/20 μs Peak Pulse Current Wave Form
acc. IEC 61000-4-5

 Fig. 4 - Typical Reverse Voltage V_R vs. Reverse Current I_R

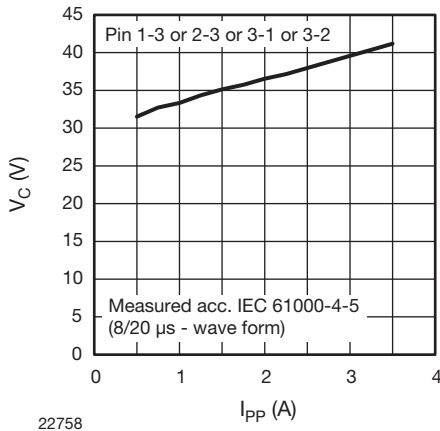


Fig. 5 - Typical Peak Clamping Voltage V_C vs. Peak Pulse Current I_{PP}

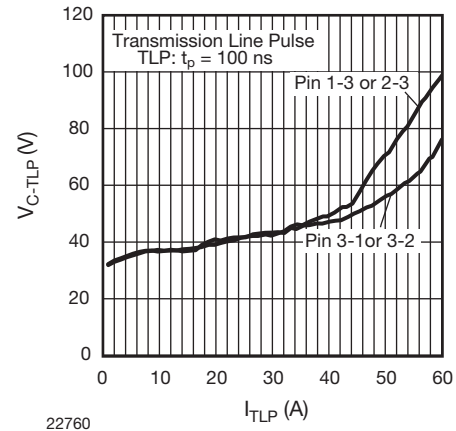
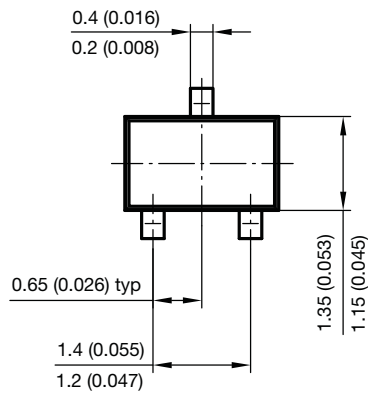
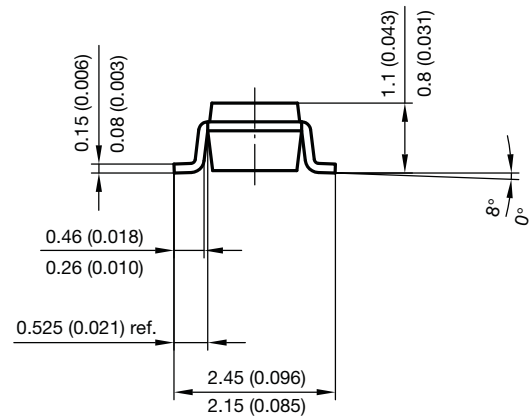
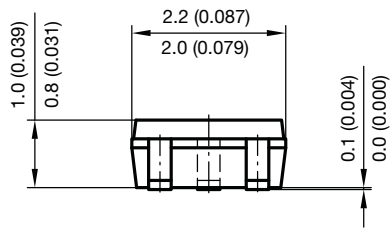
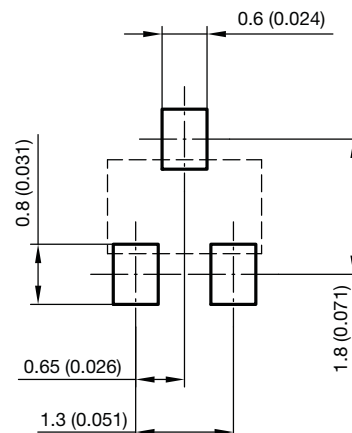


Fig. 6 - Typical Clamping Voltage V_{C-TLP} vs. Pulse Current I_{TLP}

PACKAGE DIMENSIONS in millimeters (inches) **SOT-323**



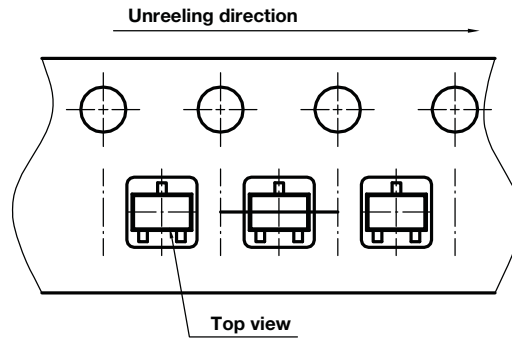
foot print recommendation:



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 Rev. 1 - Date: 06. April 2010
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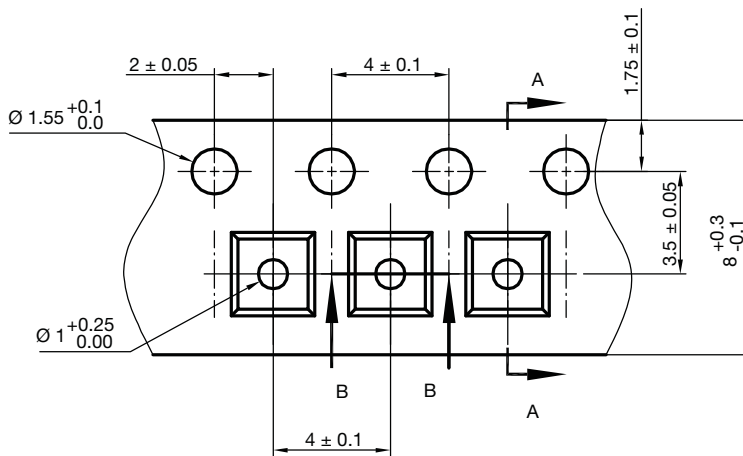


ORIENTATION IN CARRIER TAPE SOT-323

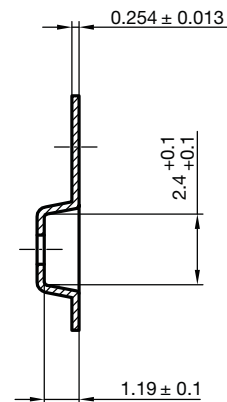


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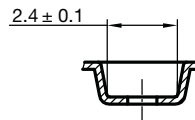
CARRIER TAPE SOT-323



A-A Section



B-B Section



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- Поставка более 17-ти миллионов наименований электронных компонентов;
- 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;
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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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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

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