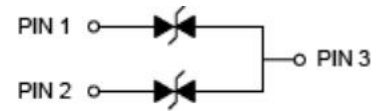


Features

- ◇ 240W (8/20 μ s) Peak Pulse Power
- ◇ High ESD Protection Level
- ◇ SOT23 Thin SMD Package
- ◇ RoHS compliant
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Protect Two CAN Bus Lines

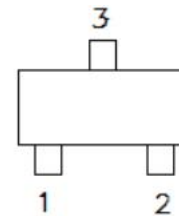
Circuit Diagram



Applications

- ◇ DeviceNet
- ◇ Low and High Speed CAN
- ◇ Smart Distribution Systems (SDS)
- ◇ Controlled Area Network – CAN 2.1 / CAN FD

PIN Diagram



Ordering information

Device	Package	Reel Size	Qty / Reel
PESD15VL2BT	SOT-23	7 inch	3000

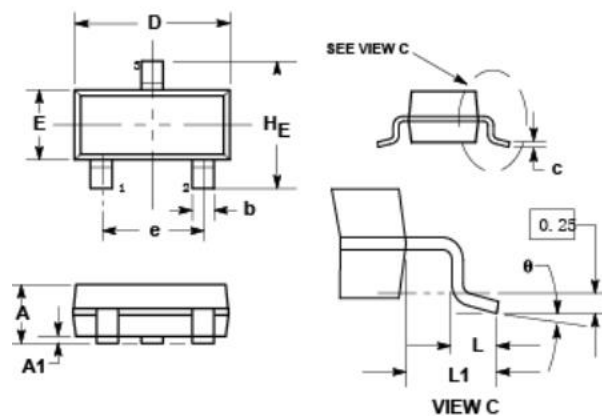
Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	240	W
IPP	Peak Pulse Current	6	A
VESD (Contact)	Contact ESD Voltage per IEC61000-4-2	15	kV
VESD(Air)	Air ESD Voltage per IEC61000-4-2	15	kV
TJ	Junction Temperature	-65 to +150	°C
TSTG	Storage Temperature	-65 to +150	°C

Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				15	V
VBR	Reverse Breakdown Voltage	IT = 1mA	16.7		20	V
IR	Reverse Leakage Current	VRWM = 15V			<1	uA
VC	Clamping Voltage	IPP = 6 A (8/20μs)			40	V
VC	Clamping Voltage					
CJ	Capacitance	VR = 0V, f = 1MHz		28		pF

SOT-23 Dimension



- NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: INCH.
 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.89	1.00	1.11	0.035	0.040	0.044
A1	0.01	0.06	0.10	0.001	0.002	0.004
b	0.37	0.44	0.50	0.015	0.018	0.020
c	0.09	0.13	0.18	0.003	0.005	0.007
D	2.80	2.90	3.04	0.110	0.114	0.120
E	1.20	1.30	1.40	0.047	0.051	0.055
e	1.78	1.90	2.04	0.070	0.075	0.081
L	0.10	0.20	0.30	0.004	0.008	0.012
L1	0.35	0.54	0.69	0.014	0.021	0.029
HE	2.10	2.40	2.64	0.083	0.094	0.104
θ	0°	—	10°	0°	—	10°

STYLE 27:
PIN 1. CATHODE
2. CATHODE
3. CATHODE

SOLDERING FOOTPRINT

