

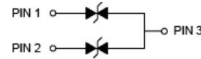
## Applications

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

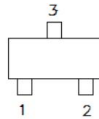
## Features

- ◇ 240W (8/20  $\mu$ 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

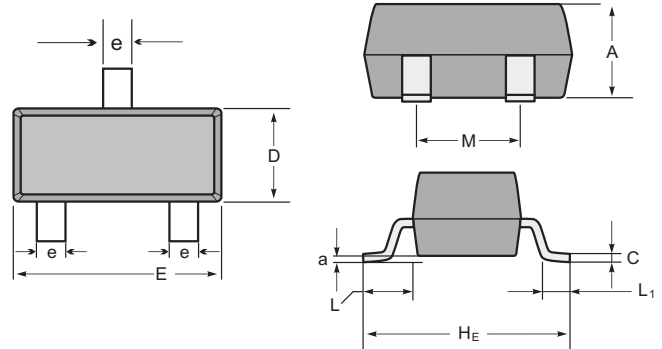


PIN Diagram



## Ordering information

Device	Package	Marking
PESD15VL2BT	SOT-23	V6W



SOT-23 mechanical data

UNIT	A	C	D	E	He	e	M	L	L <sub>1</sub>	a	
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

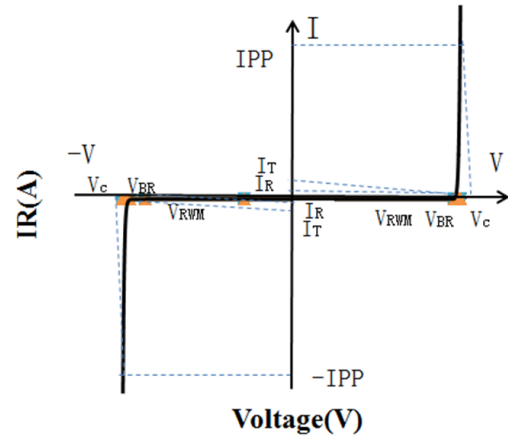
## Absolute Maximum Ratings (T<sub>A</sub>=25°C unless otherwise specified)

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

# PESD15VL2BT

## Portion Electronics Parameter

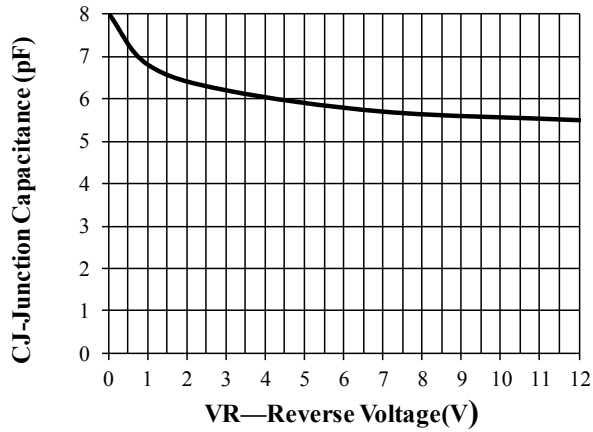
Symbol	Parameter
$I_T$	Test Current
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_c$	Clamping Voltage @ $I_c$



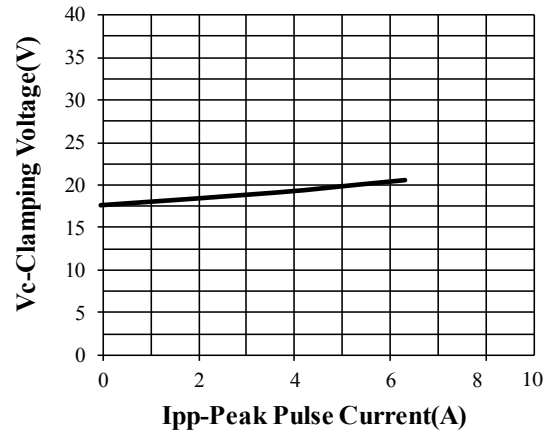
## Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	$V_{RWM}$				15	V
Breakdown Voltage	$V_{BR}$	$I_T = 1\text{mA}$	16.5	18	20	V
Reverse Leakage Current	$I_R$	$V_{RWM} = 15\text{V}$			1	$\mu\text{A}$
Clamping Voltage	$V_c$	$I_{PP} = 6\text{A}$ (8 x 20 $\mu\text{s}$ pulse)		27	40	V
Junction Capacitance	$C_J$	$V_R = 0\text{V}$ , $f = 1\text{MHz}$		18	30	pF

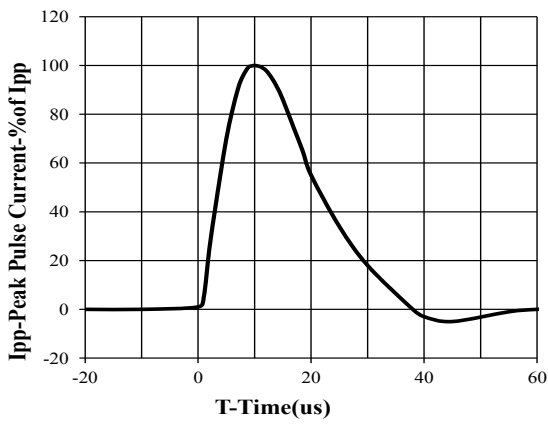
RATING AND CHARACTERISTIC CURVES (PESD15VL2BT)



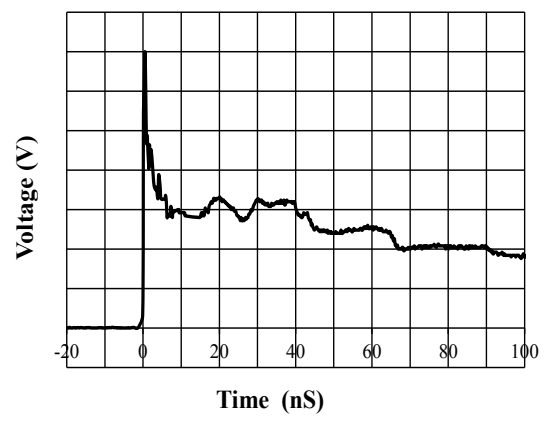
Junction Capacitance vs. Reverse Voltage



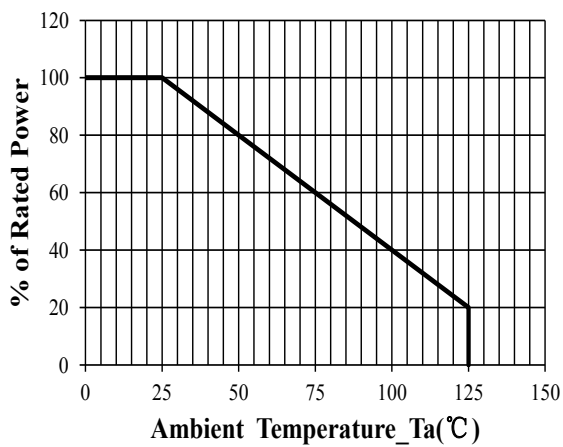
Clamping Voltage vs. Peak Pulse Current



8 X 20us Pulse Waveform



IEC61000-4-2 Pulse Waveform



Power Derating Curve

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