

自主封測 品質把控 售後保障

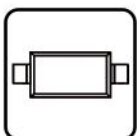
WEB | WWW.TDSEMIC.COM



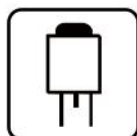
電源管理



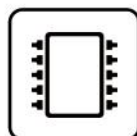
顯示驅動



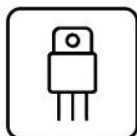
二三極管



LDO穩壓器



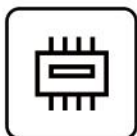
觸摸芯片



MOS管



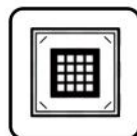
運算放大器



存儲芯片



MCU



串口通信

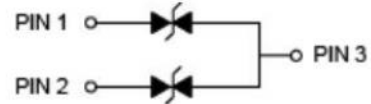
PESD5V0L2BT

產品規格說明書

Features

- ◇ 350W (8/20μs) Peak Pulse Power
- ◇ High ESD Protection Level
- ◇ SOT23 Thin SMD Package
- ◇ RoHS compliant
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Protect Two L2BTBus Lines

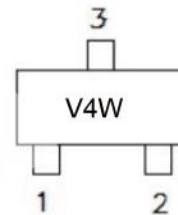
Circuit Diagram



Applications

- ◇ DeviceNet
- ◇ Low and High Speed L2BT
- ◇ Smart Distribution Systems (SDS)
- ◇ Controlled Area Network – ESD 1.1 / ESD FD

PIN Diagram



Ordering information

Device	Package	Reel Size	Qty / Reel
PESD5V0L2BT	SOT-23	7 inch	3000

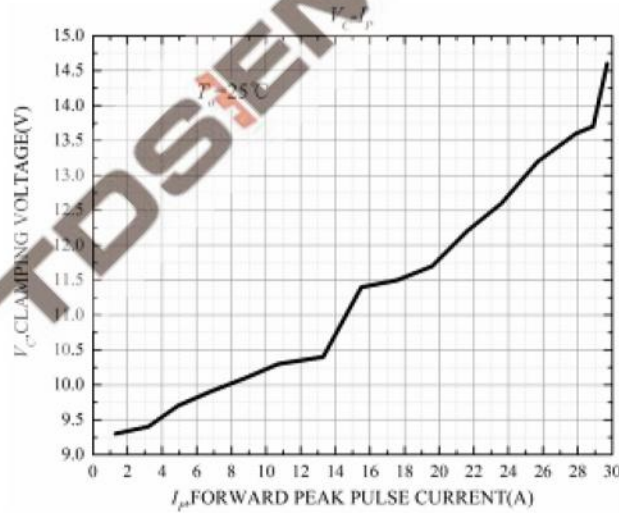
Maximum Ratings (Ta = 25°C)

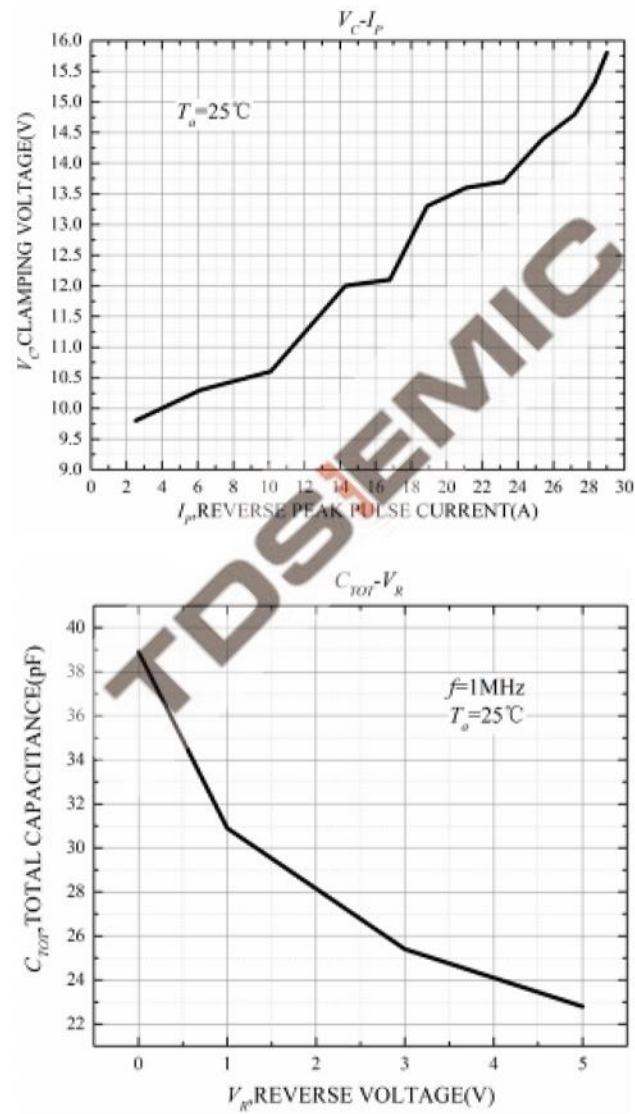
Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	350	W
IPP	Peak Pulse Current	20	A
VESD (Contact)	Contact ESD Voltage per IEC61000-4-2	20	kV
VESD (Air)	Air ESD Voltage per IEC61000-4-2	20	kV
TJ	Junction Temperature	-65 to +150	°C
TSTG	Storage Temperature	-65 to +150	°C

Electrical Characteristics (Ta = 25°C)

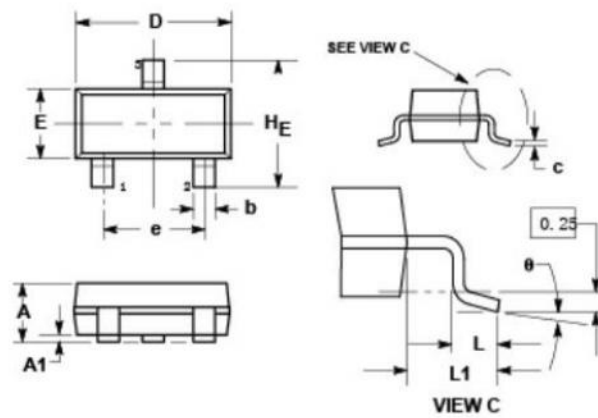
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				5	V
VBR	Reverse Breakdown Voltage	IT = 1mA	5.8		8.3	V
IR	Reverse Leakage Current	VRWM = 5 V		<1	100	nA
VC	Clamping Voltage	IPP = 2A (8/20μs)			9	V
VC	Clamping Voltage	IPP = 20A (8/20μs)			20	V
CJ	Capacitance	VR = 0V, f = 1MHz		39		pF

3.3 典型特性曲线





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
H _E	2.10	2.40	2.64	0.083	0.094	0.104
ø	0*	—	10*	0*	—	10*

STYLE 27:

1. CATHODE
2. CATHODE
3. CATHODE

SOLDERING FOOTPRINT

