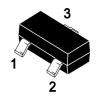


Discription

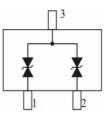
The PESD2CAN protects sensitive semiconductor components from damage or upset due to electrostatic discharge (ESD) and other voltage induced transient events. Excellent clamping capability, low leakage, low capacitance, and fast response time provide best in class protection on designs that are exposed to ESD. It gives designer the flexibility to protect one bi-directional line in applications where arrays are not practical.



SOT-23

Features

- ★ Low Leakage
- ★ IEC61000-4-2 Level 4 ESD Protection
- ★ We declare that the material of product compliant with RoHS requirements and Halogen Free.
- ★ S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.



Circuit Diagram

Ordering information

Product ID	Pack	Qty(PCS)
PESD2CAN	SOT-23	3000

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±30 ±30	kV kV
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150	$^{\circ}$ C

Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

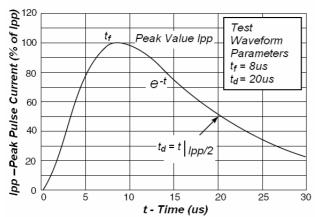


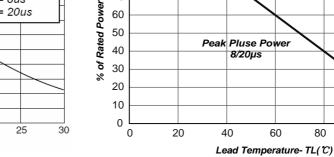
ELECTRICAL CHARACTERISTICS

	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}	V _{BR} (V) (Note		I _T	V _C (V) @MAX I _{PP} (Note 2)	I _{PP} (A) (Note 2)	P _{PK} (W) (Note 2)	C (pF)
Device	Max	Max	Min	Max	mA	Max	Max	Max	Тур
PESD2CAN	24	0.5	26	33	1	40	4	160	10

Other voltage available upon request.

- 1. V_{BR} is measured with a pulse test current ITat an ambient temperature of $25\,^{\circ}\!\mathrm{C}$
- 2. Surge current waveform per Figure 1.





100

90

80

70

60 50

40 30

Fig1. Pulse Waveform

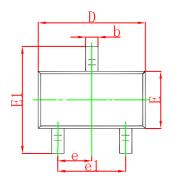
Fig2.Power Derating Curve

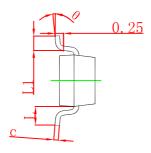
100

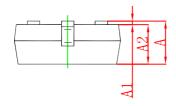
120

Peak Pluse Power

SOT-23 Package Outline Dimensions

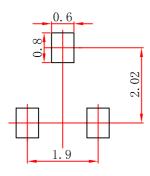






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 Suggested Pad Layout



- Note:
 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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