













ESD

TVS

TSS

MOV

GDT

PLED

PESD1CAN-UX-MS

Product specification





Features

- Ultra low leakage: nA level
- Operating voltage: 24V
- Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 Air discharge: ±30kV
 Contact discharge: ±30kV
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - IEC61000-4-5 (Lightning) 5A (8/20µs)
- RoHS Compliant
- AEC-Q101 Compliant

Applications

- USB 2.0 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers
- SIM Ports
- 10/100 Ethernet

Mechanical Characteristics

- Package: SOT- 323
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel:3,000pcs
- Reel Size:7inch

Pin Configuration and Functions

PACKAGE OUTLINE	Pin Configuration	Circuit Diagram
		NBt
SOT-323		

Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

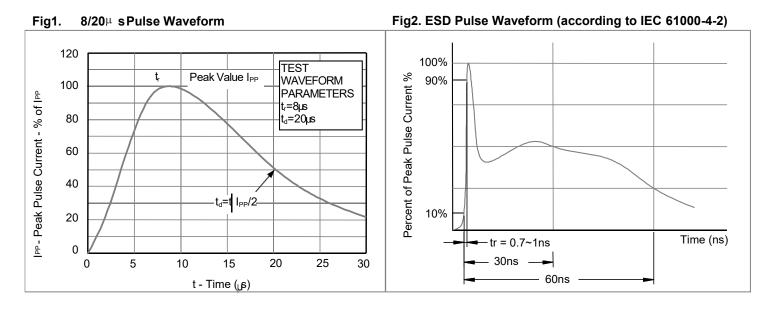
Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	Ррр	300	W	
ESD per IEC 61000-4-2 (Air)		± 30	Ku (
ESD per IEC 61000-4-2 (Contact)	Vesd	±30	Kv	
Operating Temperature Range	TJ	-55 to +125	°C	
Storage Temperature Range	Тѕтј	-55 to +150	°C	



Electrical Characteristics(TA=25°C unless otherwise specified)

Part Number	V _{RWM} (V)	V _{br} (V)	l⊤ (mA)	Vc @1A	(Max)	с (@А)	l _ℝ μΑ (Max)	C (Pf) (Typ.)
PESD1CAN-UX-MS	24	27	1	40	45	5	0.2	25

Characteristic Curves



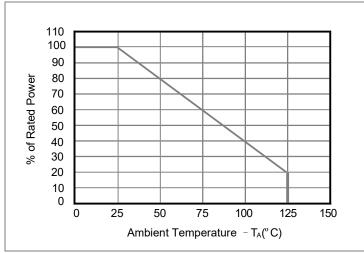
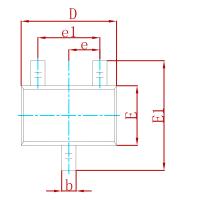
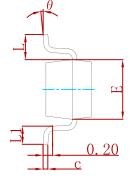


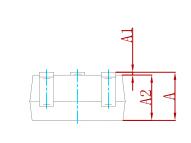
Fig3. Power Derating Curve



PACKAGE MECHANICAL DATA

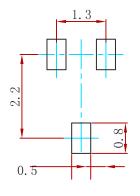






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.200	0.400	0.008	0.016	
С	0.080	0.150	0.003	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.450	0.085	0.096	
е	0.650 TYP		0.026 TYP		
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

Suggested Pad Layout



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

REEL SPECIFICATION

P/N	PKG	QTY
PESD1CAN-UX-MS	SOT-323	3000

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