MSKSEMI















ESD

TVS

TSS

MOV

GDT

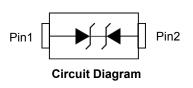
PLED

Broduct data speet





- Stand-off Voltage: 5V0
- Low Leakage
- Response Time is Typically < 1ns
- IEC61000-4-2 Level 4 ESD Protection
- RoHS Compliant
- Threen EMC
- Matte Tin(Sn) Lead Finish



SOD-523

Absolute Maximum Ratings

Symbol	Parameter	Value	Units
Vpp	IEC61000-4-2(ESD) Air Contac	±15 ±8	KV
ESD	Per Human Body Model	16	KV
P _D	Power Dissipation (Note 1)	150	mW
T _{STG}	Storage Temperature Range	-55 to +150	°C
TJ	Operating Junction Temperature	+150	°C
TL	Max Lead Solder Temperature range(10 Second Duration)	260	°C

T_A = 25°C unless otherwise noted

These ratings are limiting values above which the serviceability of the diode may be impaired. Note 1. FR-5 = $1.0 \times 0.75 \times 0.62$ in.

Electrical Characteristics (T_A = 25°C unless otherwise noted)

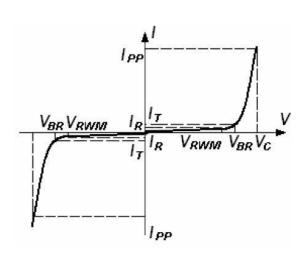
P/N	V _{RWM} (Volts)	I _R @ V _{RWN} (μΑ)	(No	@ I _T te 2) olts)	I _T (mA)	I _{PP+} (A)	V _C @ Max I _{PP+} (Volts)	P _{PK+} (W)	C @ $V_R = 0V, f = 1MHz$ (pF)
	Max	Max	Min	Max		Max	Max	Max	Тур.
PESD5V0S1BB-MS	5.0	1	5.6	7.8	1.0	4	12	48	15

⁺ Surge current waveform per Figure 1.

Note 2: V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.

Electrical Parameter

Symbol	Parameter			
I _{PP}	Maximum Reverse Peak Pulse Current			
V_{C}	Clamping Voltage @ IPP			
V_{RWM}	Working Peak Reverse Voltage			
I _R	Maximum Reverse Leakage Current @ V _{RWM}			
lτ	Test Current			
V_{BR}	V _{BR} Breakdown Voltage @ I _T			

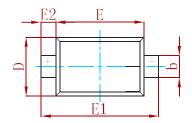


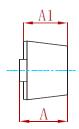


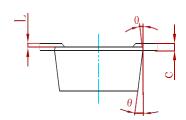
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PACKAGE MECHANICAL DATA

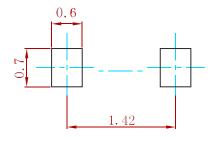






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200 REF		0.008 REF		
L	0.010	0.070	0.001	0.003	
0	7° ŘEF		7° REF		

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
PESD5V0S1BB-MS	SOD-523	3000



Compiance

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