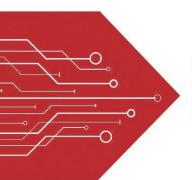
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet



Features

500Watts peak pulse power (tp =8/20µs)

Bidirectional configurations

Solid-state silicon-avalanche technology

Low clamping voltage

Low leakage current

IEC 61000-4-2 ±30kV contact ±30kVair

IEC 61000-4-4 (EFT) 40A(5/50ns)

IEC 61000-4-5 (Lightning) 45A(8/20µs)



SOD-323

Applications

Microprocessor based equipment

Personal Digital Assistants (PDA's)

Notebooks, Desktops, and Servers

Portable Instrumentation

Pagers Peripherals

Mechanical Data

SOD323 package

Molding compound flammability rating: UL 94V-0

Packaging: Tape and Reel **RoHS/WEEE Compliant**

Absolute Maximum Rating

Absolute maximum ruting				
Rating	Symbol	Value	Units	
Peak Pulse Power (t _p =8/20µs)	P _{PP}	500	Watts	
Peak Pulse Current (t _p =8/20μs) (note1)	I _{pp}	24	A	
ESD per IEC 61000-4-2(Air) ESD per IEC 61000-4-2(Contact)	V _{ESD}	30 30	kV	
Lead Soldering Temperature	T∟	260(10seconds)	°C	
Junction Temperature	TJ	-55 to + 150	°C	
Storage Temperature	T _{stg}	-55 to + 150	°C	





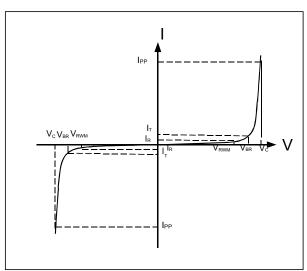


»Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-OffVoltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	4.0	4.7		V
Reverse LeakageCurrent	I _R	V _{RWM} =3.3V,T=25℃			0.5	uA
Clamping Voltage	Vc	I _{PP} =45A,t _p =8/20μs		12		V
Junction Capacitance	C _j	V _R = 0V, f =1MHz		80		pF

»Electrical Parameters (TA = 25°C unless otherwisenoted)

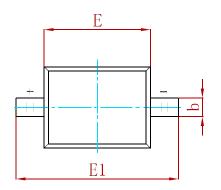
Symbol	Parameter	
I _{PP}	Maximum Reverse Peak Pulse Current	
Vc	Clamping Voltage @ I _{PP}	
V _{RWM}	Working Peak Reverse Voltage	
I _R	Maximum Reverse Leakage Current @ V _{RWM}	
V _{BR}	Breakdown Voltage @ I⊤	
I _T	Test Current	

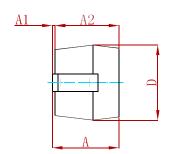


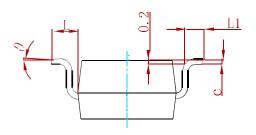
Note: 8/20µs pulsewaveform.



PACKAGE MECHANICAL DATA

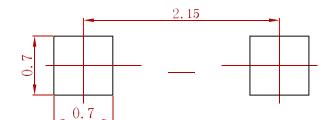






0 l l	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min.	Max.	Min.	Max.
Α		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
С	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L,	0.475	REF.	0.019	REF.
L1	0.250	0.400	0.010	0.016
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
PSD03C	SOD-323	3000



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