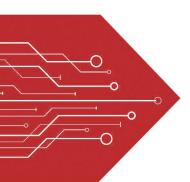
MSKSEMI















ESD

TVS

TSS

MOV

GDT

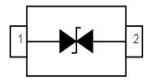
PLED

Broduct data sheet



PIN CONFIGURATION





SOD-323

FEATURES

- ♦ IEC61000-4-2 (ESD) ±8kV (Contact), ±15kV (Air)
- → IEC61000-4-4 (EFT) 40A (5/50ηs)
- ♦ Peak power dissipation: 60W (8/20µs)
- ♦ Protects one I/O line
- ♦ Low clamping voltage
- ♦ Working voltages : 5V
- ♦ Low leakage current

MACHANICAL DATA

- ♦ SOD-323 package
- ♦ Terminals: Tin plated, solderable per MIL-STD-750, method 2026
- ♦ Packaging: Tape and Reel
- ♦ Reel size: 7 inch

APPLICATIONS

- ♦ High Speed Line :USB1.0/2.0, VGA, DVI, SDI,
- ♦ Serial and Parallel Ports
- ♦ Notebooks, Desktops, Servers
- ♦ Projection TV
- Cellular handsets and accessories
- ♦ Portable instrumentation
- ♦ Peripherals

ABSOLUTE MAXIMUM RATING

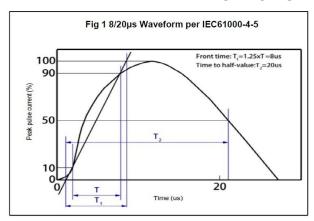
Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±30 ±30	kV
P _{PP}	Peak Pulse Power (8/20µs)	60	W
T _{OPT}	Operating Temperature	-55~150	°C
T _{STG}	Storage Temperature	-55~150	°C

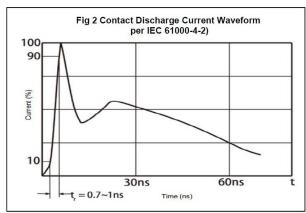
ELECTRICAL CHARACTERISTICS (Tamb=25°C)

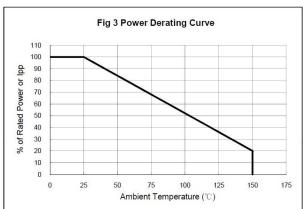
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V _{RWM}	Reverse Working Voltage				5.0	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	5.6		7.8	V
I _R	Reverse Leakage Current	$V_{RWM} = 5V$			1.0	μΑ
Vc	Clamping Voltage	$I_{PP} = 5A, t_p = 8/20 \mu s$			12.0	V
Сл	Junction Capacitance	V _R = 0V, f = 1MHz			18	pF

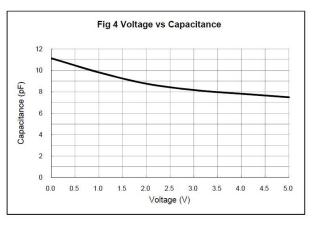


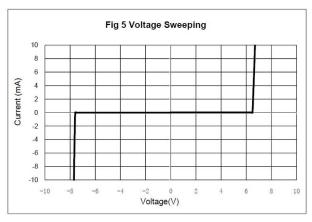
ELECTRICAL CHARACTERISTICS CURVE

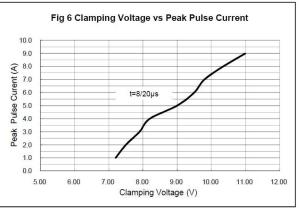






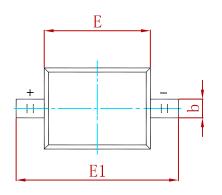


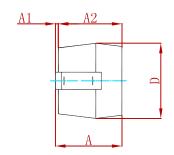


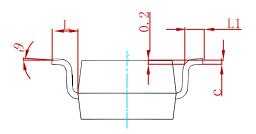




PACKAGE MECHANICAL DATA

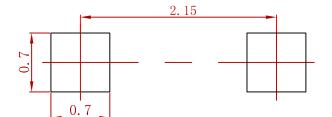






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475 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
ESD3Z5.0C-MS	SOD-323	3000



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