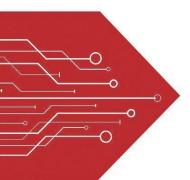
## MSKSEMI















**ESD** 

TVS

**TSS** 

MOV

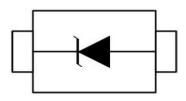
**GDT** 

**PLED** 

# Broduct data sheet







SOD-323

- ♦ 350 Watts peak pulse power (tp = 8/20µs)
- ◆ Transient protection for high speed data lines to IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC 61000-4-4 (EFT) 40A (5/50ns)
- ♦ Working voltages : 3.3V-36V
- ◆ Protects one bidirectional line
- Low operating and clamping voltages
- ◆ Solid-state silicon avalanche technology

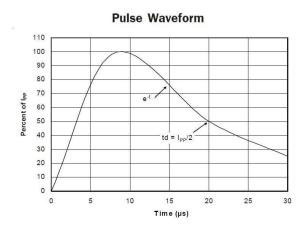
## **Applications**

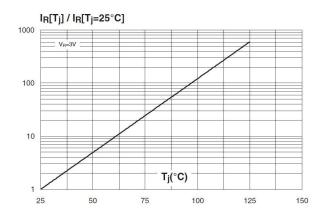
- Notebooks, Desktops, Servers and Video Graphics Cards
- ◆ USB Power & Data Line Protection
- Monitors and Flat Panel Displays
- ♦ I<sup>2</sup>C Bus Protection
- ◆ Portable Instrumentation
- ♦ Set Top Box

Symbol	Parameter	Value	Units	
V	ESD per IEC 61000-4-2 (Air)	±15	kV	
<b>V</b> <sub>ESD</sub>	ESD per IEC 61000-4-2 (Contact)	±8		
$P_PP$	Peak Pulse Power (8/20µs)	350	W	
T <sub>OPT</sub>	Operating Temperature	-55/+150	°C	
T <sub>STG</sub>	Storage Temperature	-55/+150	°C	
T∟	T <sub>L</sub> Lead Soldering Temperature		°C	

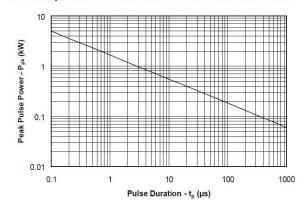
P/N	V <sub>RWM</sub> (V) (max.)	V <sub>B</sub> (V) (min.)	I <sub>T</sub> (mA)	V <sub>C</sub> @1A (V) (max.)	V (\ (max.)		I <sub>R</sub> (μA) (max.)	C <sub>⊤</sub> (pF) (max.)
ESD3Z5.0T1G-MS	5	6	1	9.8	18	17	10	300

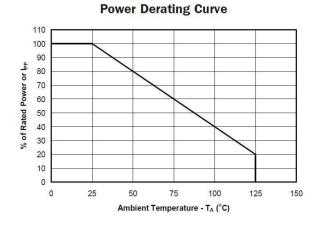
## ypical Characteristics@ Ta=25°C unless otherwise specified





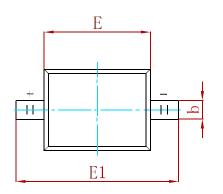
#### Non-Repetitive Peak Pulse Power vs. Pulse Time

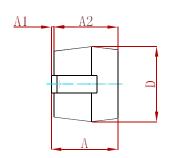


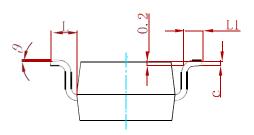




#### **PACKAGE MECHANICAL DATA**

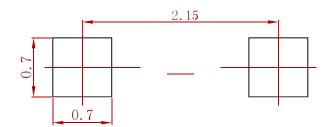






Cyrmahaal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
Ļ	0.475	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
ESD3Z5.0T1G-MS	SOD-323	3000



Compiance

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