

## Features

- High Power Rating
- Low Capacitance
- Low Leakage
- Low Clamping Voltage
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

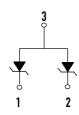
## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

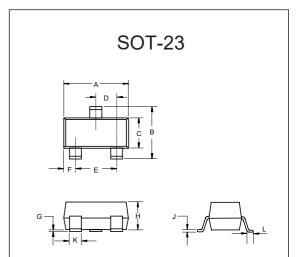
MCC Part Number	Device Marking
ESDSLC5V0T2	5M

IEC61000-4-2(ESD)	Air Contact	±20KV ±15KV	
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	5A	
Peak Pulse Power (8/20us)	P <sub>PK</sub>	100W	

## Internal Structure







		DIM	IENSIO	NS	
DIM INCHES		MM		NOTE	
DIN	MIN	MAX	MIN	MAX	NOTE
А	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
Κ	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

# Suggested Solder Pad Layout

0.037

0.037 0.950



# Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>	Pin 1 or Pin 2 to Pin 3 and Between Pin 1 and Pin 2			5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> = 1mA, Pin 1 or Pin 2 to Pin 3 and Between Pin 1 and Pin 2	6			v
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V,Pin 1 or Pin 2 to Pin 3 and Between Pin 1 and Pin 2			0.5	μΑ
Clamping Voltage	Vc	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs, Pin 1 or Pin 2 to Pin 3		10	15	V
Clamping Voltage	Vc	I <sub>PP</sub> =5A, t <sub>P</sub> =8/20μs, Pin 1 or Pin 2 to Pin 3		15	20	V
Junction Capacitance	CJ	$V_R = 0V$ , f = 1MHz, Between Pin 1 and Pin 2		0.3	0.4	pF
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz,$ Pin 1 or Pin 2 to Pin 3			0.8	pF



# **Curve Characteristics**

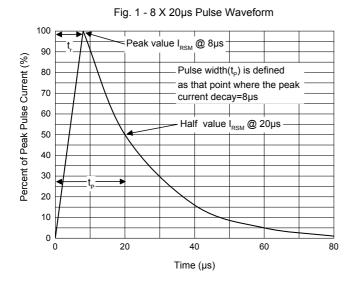
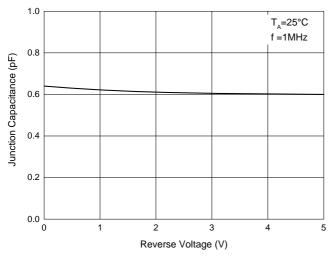


Fig. 3 - Capacitance Characteristics



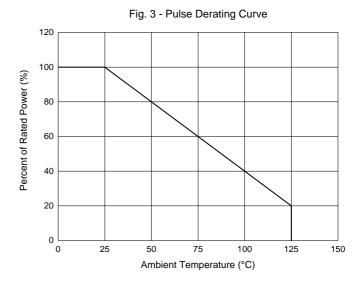
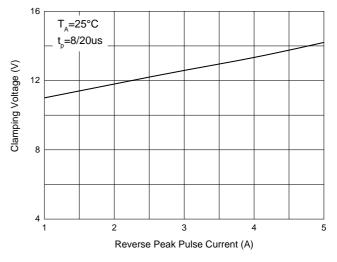


Fig. 4 - Clamping Voltage Characteristics





# **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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