

## **Features**

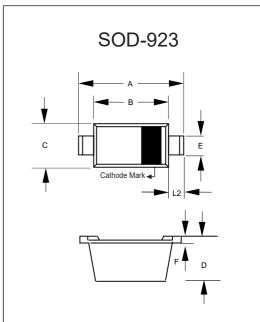
- Ultra Low Capacitance
- Ultra Low Leakage
- Low Clamping Voltage
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

# **ESD Protection Device**

# **Maximum Ratings**

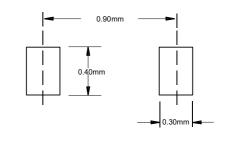
IEC61000-4-2(ESD)	Air	±25KV	
12001000 12(200)	Contact	±20KV	
Peak Pulse Power (8/20µs)	PPK	75W	
Peak Pulse Current (8/20µs)(Note 2)	lpp	5A	
Operating Junction Temperature Range	TJ	ĔÍ»ÔÁĮÆFGÍ»Ô	
Storage Temperature Range	TSTG	ĔÍ »ÔÁĮ Æ150»Ô	

<sup>2.</sup>Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.



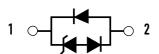
DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOTE	
Α	0.037	0.041	0.95	1.05		
В	0.030	0.033	0.75	0.85		
С	0.022	0.026	0.55	0.65		
D	0.014	0.017	0.36	0.43		
Е	0.006	0.010	0.15	0.25		
F	0.003	0.007	0.07	0.17		
L2	0.002	0.006	0.05	0.15	_	

# Suggested Solder Pad Layout



## **Internal Structure**

# **Marking Code**

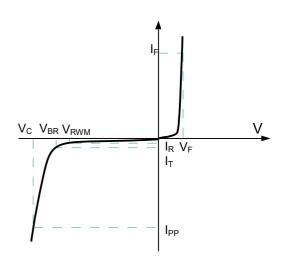




<sup>1.</sup> Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



Symbol	Parameter		
VRWM	Peak Reverse Working Voltage		
IR	Reverse Leakage Current @ VRWM		
VBR	Breakdown Voltage @ IT		
ΙΤ	Test Current		
IPP	Maximum Reverse Peak Pulse Current		
VC	Clamping Voltage @ IPP		
PPP	Peak Pulse Power		
CJ	Junction Capacitance		
lF	Forward Current		
VF	Forward Voltage @ IF		



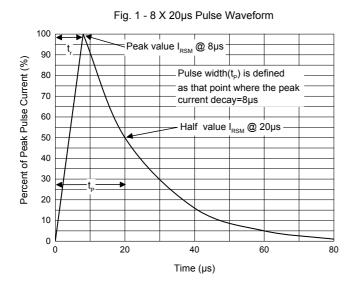
# Electrical Characteristics @ 25°C (Unless Otherwise Specified)

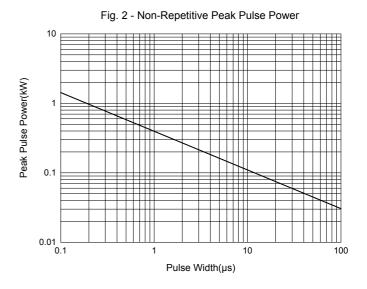
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	I <sub>T</sub> = 1mA	5.4		6.5	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V			0.5	μΑ
Forward Voltage	$V_{F}$	I <sub>F</sub> =10mA			1.1	V
Clamping Voltage <sup>Note1</sup>	V <sub>C</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			9	V
Clamping Voltage <sup>Note1</sup>	V <sub>C</sub>	I <sub>PP</sub> =5A, t <sub>P</sub> =8/20μs			15	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		0.8	0.9	pF
Dynamic Resistance Note2	$R_{DYN}$	TLP, t <sub>P</sub> =100ns		0.75		Ω

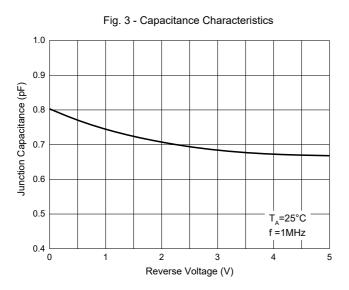
Non-repetitive current pulse 8/20μs exponential decay waveform according to IEC61000-4-5.
TLP parameter: Z<sub>0</sub>=50Ω, t<sub>p</sub>=100ns, t<sub>r</sub>=2ns, averaging window from 60ns to 80ns. R<sub>DYN</sub> is calculated from 4A to 16A.

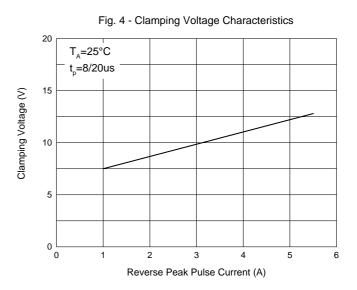


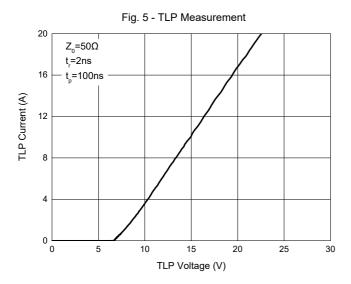
# **Curve Characteristics**

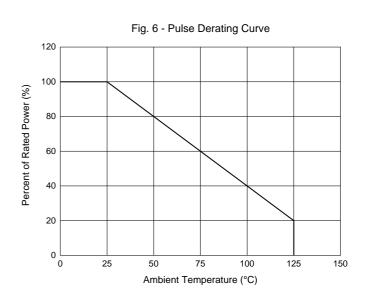














# **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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