

Features

- AEC-Q101 Qualified
- · Protects One Data or Power Line
- Low Leakage
- Ultra 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

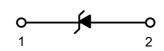
Maximum Ratings

JECC4000 4 3/ECD)	Air	±30KV		
IEC61000-4-2(ESD)	Contact	±30KV		
Peak Pulse Power (8/20µs)	PPK	300W		
Peak Pulse Current (8/20µs)(Note 2)	lpp	7A		
Operating Junction Temperature Range	ТЈ	-55°C to +150°C		
Storage Temperature Range	TSTG	-55°C to +150°C		

Note:

Marking Information Internal Structure

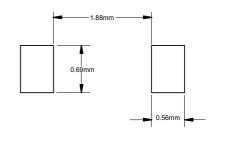




SOD-323

DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN		MIN	MAX	NOTE
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

Suggested Solder Pad Layout

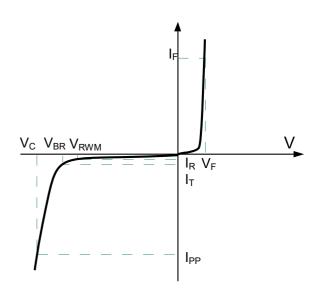


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

^{2.}Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.



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}				24	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	26.7			V
Reverse Leakage Current	I _R	V _{RWM} =24V			1.0	μA
Clamping Voltage ^{Note1}	V_{C}	I _{PP} =1A, t _P =8/20μs			32	V
Clamping Voltage ^{Note1}	V_{C}	I _{PP} =5A, t _P =8/20μs			42	V
Clamping Voltage ^{Note1}	V_{C}	I _{PP} =7A, t _P =8/20μs			44	V
Dynamic Resistance Note2	R_{DYN}	TLP, t _P =100ns		0.36		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		36	50	pF

Note:

^{1.}Non-repetitive current pulse, according to IEC61000-4-5.

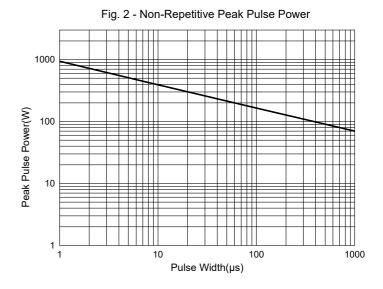
^{2.}TLP parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

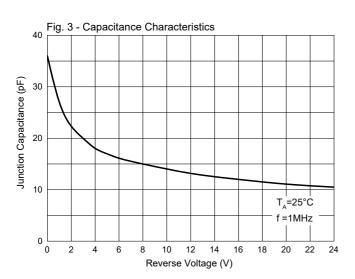


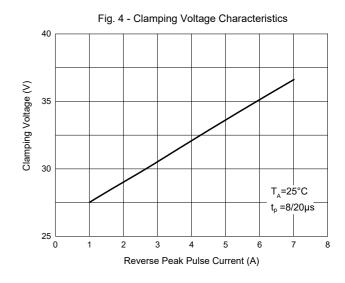
Curve Characteristics

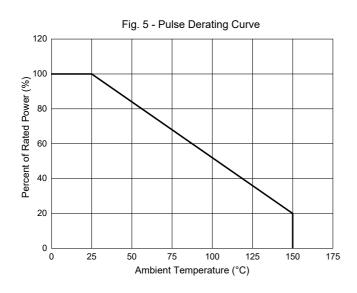
Fig. 1 - 8 X 20µs Pulse Waveform 100 Peak value I_{RSM} 90 Percent of Peak Pulse Current (%) Pulse width(t_p) is defined 80 as that point where the peak 70 current decay=8µs 60 Half value I_{RSM} @ 20µs 50 40 30 20 10 0 20 0 40 60 80

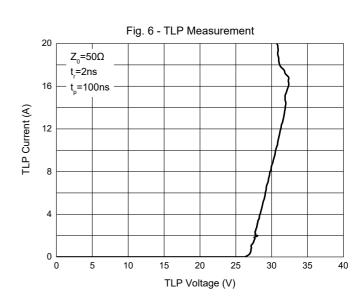
Time (µs)













Ordering Information

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

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