

Features

- AEC-Q101 Qualified
- Protects One Data or Power Line ٠
- Low Leakage
- Ultra Low Clamping Voltage ٠
- Moisture Sensitivity Level 1 •
- Epoxy Meets UL 94 V-0 Flammability Rating ٠
- Halogen Free. "Green" Device (Note 1) •
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS • Compliant. See Ordering Information)

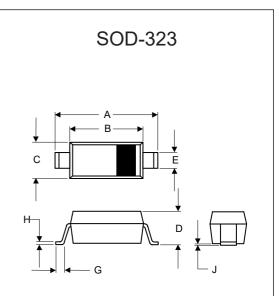
Maximum Ratings

IEC61000-4-2(ESD)	Air	±30KV	
	Contact	±30KV	
Peak Pulse Power (8/20µs)	Ррк	600W	
Peak Pulse Current (8/20µs) ^(Note 2)	lpp	30A	
Operating Junction Temperature Range	Тj	-55°C to +150°C	
Storage Temperature Range	TSTG	ËÍÍ »ÔÁų[ÁÉF50»Ô	



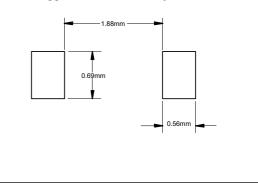
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2.Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.



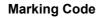


	DIMENSIONS				
DIM	INC	INCHES		М	NOTE
	MIN	MAX	MIN	MAX	NOTE
A	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

Suggested Solder Pad Layout



Internal Structure

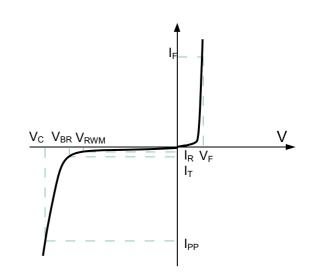








Symbol	Parameter		
VRWM	Peak Reverse Working Voltage		
IR	Reverse Leakage Current @ VRWM		
VBR	Breakdown Voltage @ IŢ		
IT	Test Current		
IPP	Maximum Reverse Peak Pulse Current		
VC	Clamping Voltage @ IPP		
PPP	Peak Pulse Power		
CJ	Junction Capacitance		
lF	Forward Current		
VF	Forward Voltage @ IF		



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

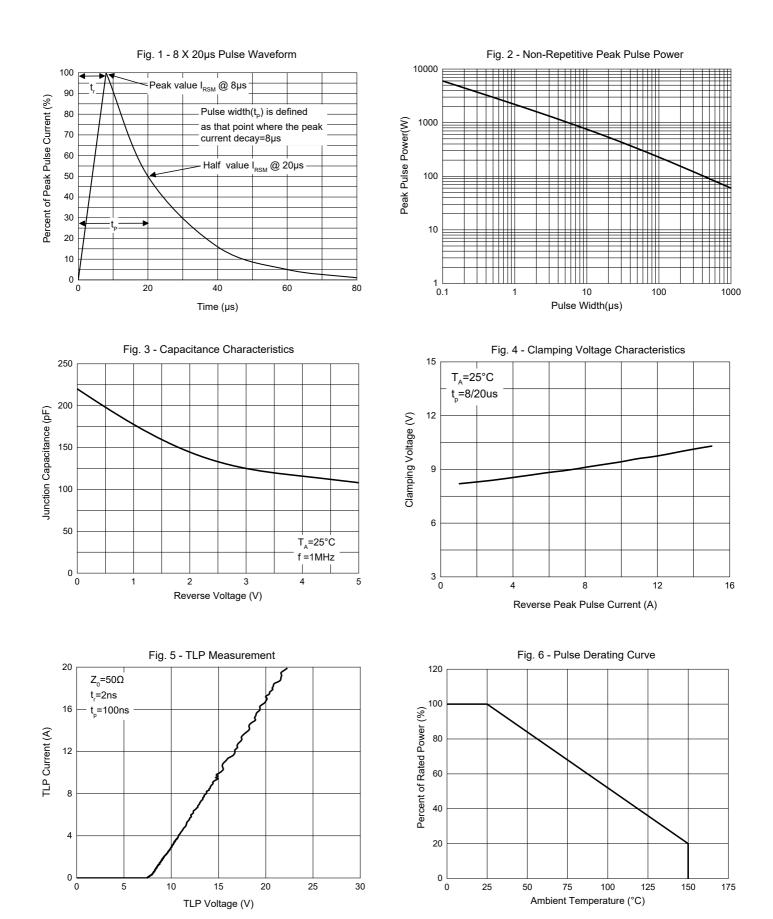
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	6.2		7.5	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1.0	μA
Forward Voltage	V _F	I _F =10mA			1.1	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20µs			9.5	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =30A, t _P =8/20μs			20	V
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.7		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		220		pF

Note:

1.Non-repetitive current pulse, according to IEC61000-4-5. 2. I/O to Ground, TLP parameter: $Z_0=50\Omega$, $t_p=100$ ns, $t_r=2$ ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.



Curve Characteristics





Ordering Information

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

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