

Features

- AEC-Q101 Qualified
- 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)

Maximum Ratings

IEC61000-4-2(ESD)	Air	±30KV		
	Contact	±30KV		
Peak Pulse Power (8/20µs)	Ррк	255W		
Peak Pulse Current (8/20µs) ^(Note 2)	IPP	17A		
Operating Junction Temperature Range	Тյ	-55°C to +150°C		
Storage Temperature Range	TSTG	-55°C to +150°C		

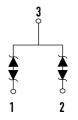


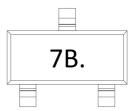
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

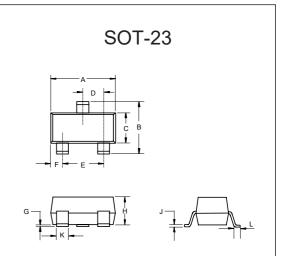
Internal Structure

Marking Code



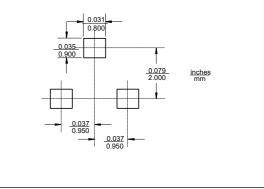






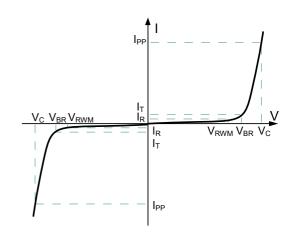
DIMENSIONS					
DIM	INC	INCHES		М	NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
Κ	0.012	0.020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

Suggested Solder Pad Layout





Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
V _{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V _{BR}	Breakdown Voltage @ I _T		
Ι _Τ	Test Current		
С	Capacitance @V _R =0 and f =1MHz		



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

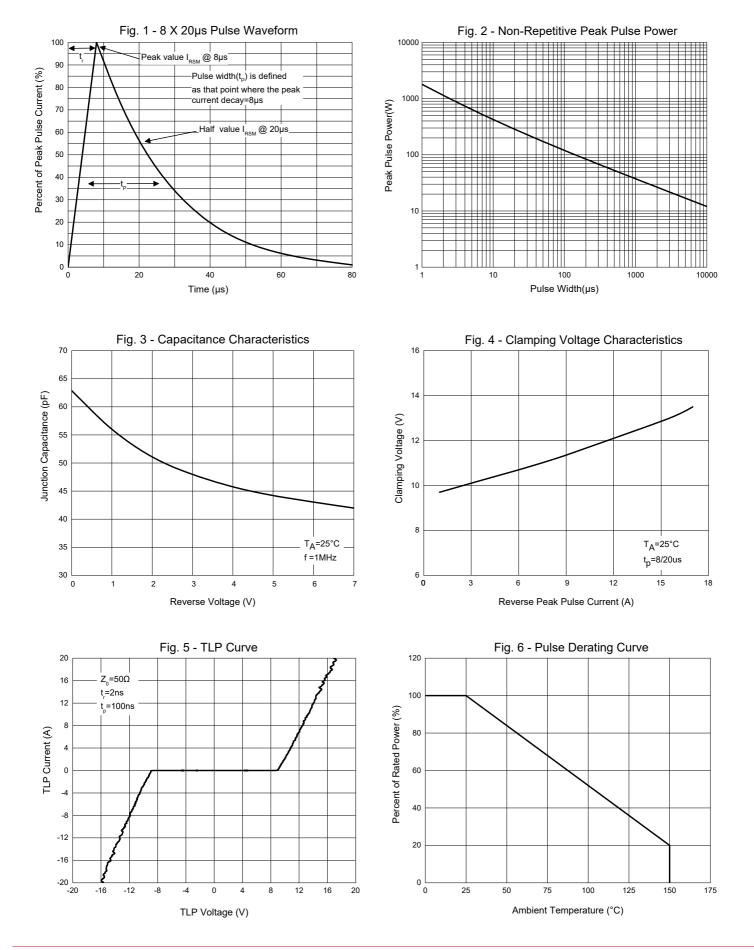
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				7	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	7.5		10	V
Reverse Leakage Current	I _R	V _{RWM} =7V			0.5	uA
Clamping Voltage ^{Note1}	V _c	I _{PP} =1A, t _P =8/20μs		11	13	V
Clamping Voltage ^{Note1}	Vc	I _{PP} =17Α, t _P =8/20μs		13	15	V
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.37		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		63		pF

Note:

1. Non-repetitive current pulse, according to IEC61000-4-5. 2. I/O to Ground, 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





Ordering Information

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

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