

Features

- AEC-Q101 Qualified
- Protects Two Bi-Directional Lines
- 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)

Maximum Ratings

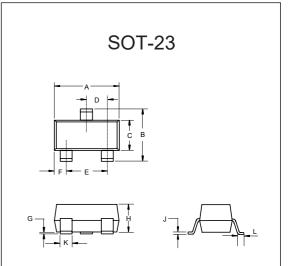
IEC61000-4-2(ESD)	Air	±30KV	
	Contact	±30KV	
Peak Pulse Power (8/20µs)	Ррк	450W	
Peak Pulse Current (8/20µs) ^(Note 2)	IPP	5A	
Operating Junction Temperature Range	Тj	-55°C to +150°C	
Storage Temperature Range	TSTG	-55°C to +150°C	

Note:

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

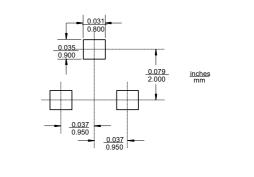
2.Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.





DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	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



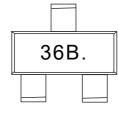
Internal Structure



2

1

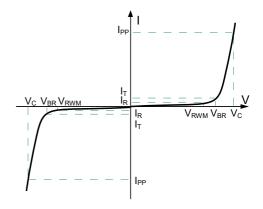
Marking Code





ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
IPP	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ I _{PP}		
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}				36	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	38	42	48	V
Reverse Leakage Current	I _R	V _{RWM} =36V			0.5	uA
Clamping Voltage ^{Note1}	V _c	I _{PP} =1A, t _P =8/20μs			55	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =5A, t _P =8/20μs			90	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		13	30	pF

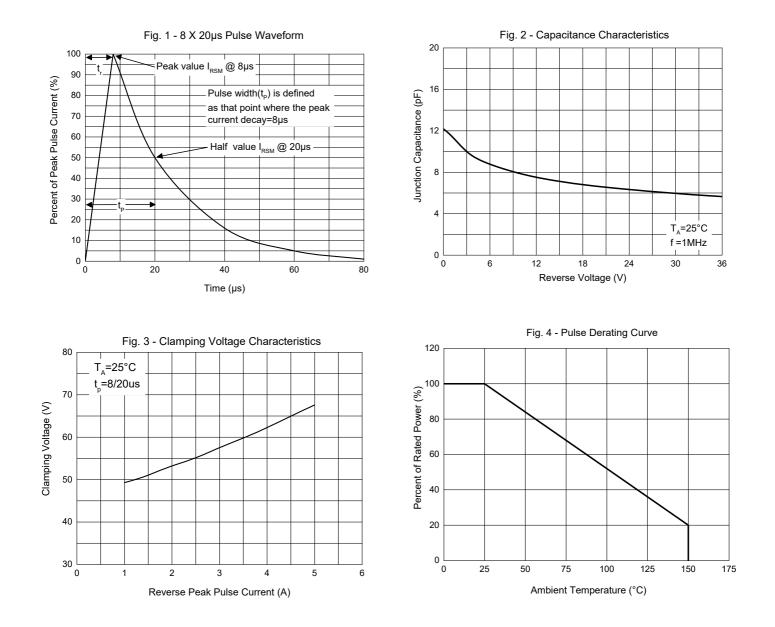
Note:

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





Curve Characteristics





Ordering Information

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

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