

Features

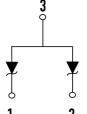
- · AEC-Q101 Qualified
- SOT-23 Package Allows Either Two Separate Unidirectional Configurations or a Single Bidirectional Configuration
- Peak Power-40W@1.0ms(Unidirectional)
- · Low Leakage
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

IEC61000-4-2(ESD)	Air	±30KV	
12001000-4-2(200)	Contact	±30KV	
Peak Pulse Power (10/1000μs)	Ppk	40W	
Power Dissipation	PD	225mW	
Thermal Resistance Junction to Ambient	RthJA	556°C/W	
Operating Junction Temperature Range	TJ	-55°C to +150°C	
Storage Temperature Range	TSTG	-55°C to +150°C	

Note:

Internal Structure

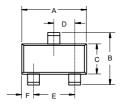


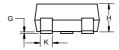


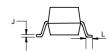
Marking Code

ESD Protection Device

SOT-23

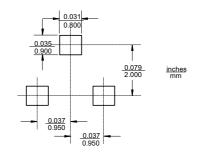






DIMENSIONS					
DIM	INC	HES I		М	NOTE
DIIVI	MIN MAX M		MIN	MAX	INOIE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012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

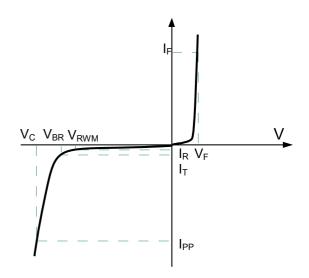
Suggested Solder Pad Layout



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



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}				22	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	25.65	27	28.35	V
Reverse Leakage Current	I _R	V _{RWM} =22V			50	nA
Forward Voltage	V _F	I _F =10mA			0.9	V
Clamping Voltage	V _C	I _{PP} =1A, t _P =10/1000μs			40	V

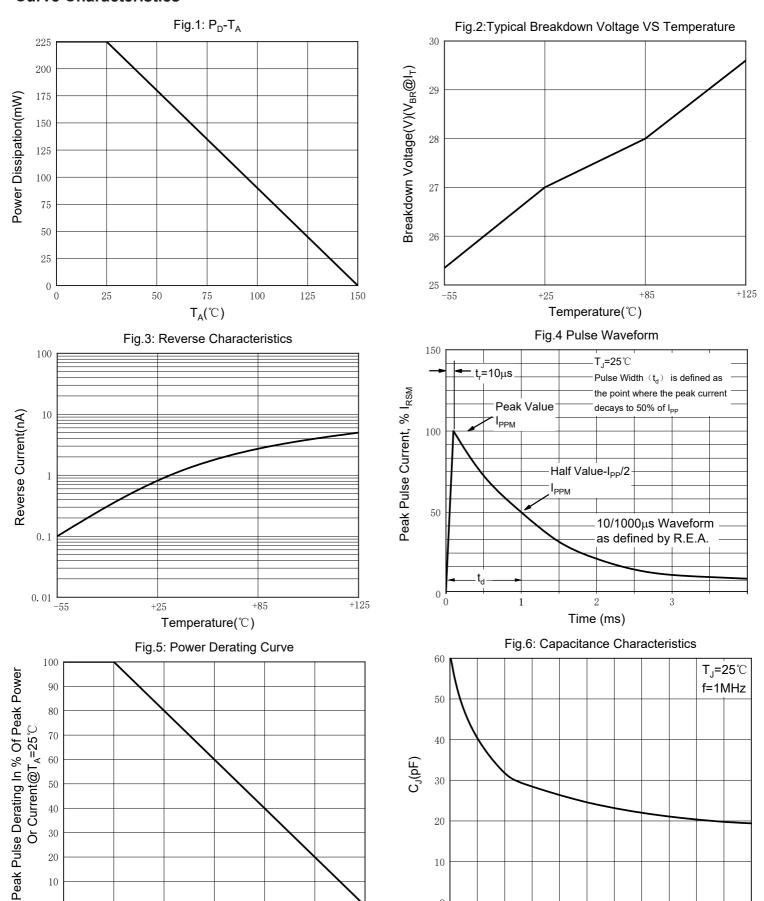


0

0

25

Curve Characteristics



150

125

Ambient Temperature - T_A ($^{\circ}$ C)

0

0

2 4

8

10 12

Reverse Voltage V_R(V)

14 16

18

20

22



Ordering Information

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

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