

Features

- · AEC-Q101 Qualified
- · 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)

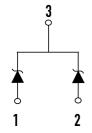
ESD Protection Device

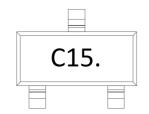
Maximum Ratings

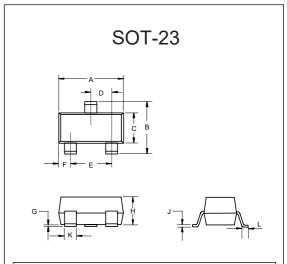
IEC61000-4-2(ESD)	Air	±30KV	
12001000-4-2(205)	Contact	±30KV	
Peak Pulse Power (8/20µs)	PpK	280W	
Peak Pulse Current (8/20µs)(Note 2)	lpp	8A	
Operating Junction Temperature Range	TJ	-55°C to +150°C	
Storage Temperature Range	TSTG	-55°C to +150°C	

Note:

Internal Structure Marking Code

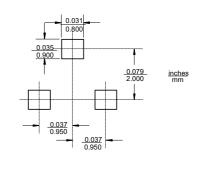






DIMENSIONS					
DIM	INC	HES	MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30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

Suggested Solder Pad Layout

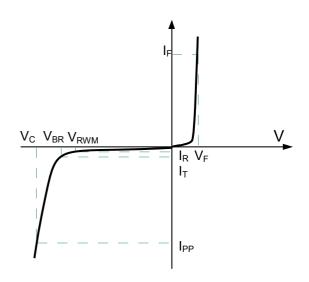


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

^{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		
lT	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}				15	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	16.1		19	V
Reverse Leakage Current	I _R	V _{RWM} =15V			1.0	μA
Forward Voltage	V _F	I _F =10mA			1.1	V
Clamping VoltageNote1	V _C	I _{PP} =1A, t _P =8/20μs			24	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =5A, t _P =8/20μs			30	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =8A, t _P =8/20μs			35	V
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.19		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		45	55	pF

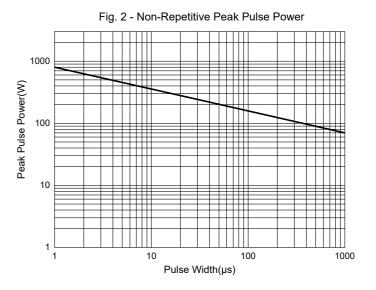
^{1.} Non-repetitive current pulse, according to IEC61000-4-5.

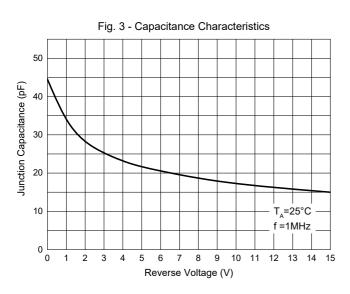
^{2.}TLP parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A. 3.Measured from Pin3 to Pin1 or Pin 3 to Pin2.

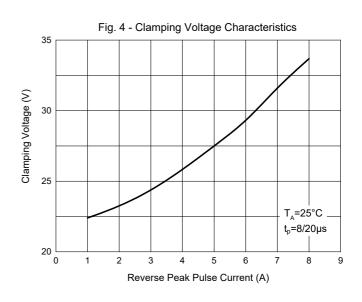


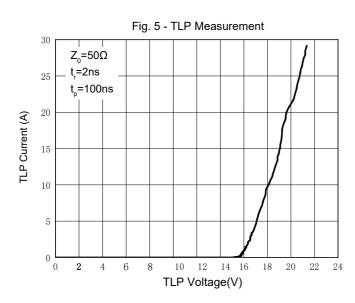
Curve Characteristics

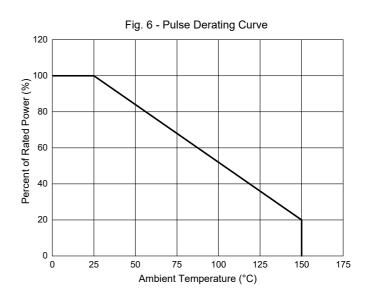
Fig. 1 - 8 X 20µs Pulse Waveform 100 Peak value I_{RSM} @ 8µs Percent of Peak Pulse Current (%) Pulse width(tp) is defined 80 as that point where the peak 70 current decay=8µs 60 - Half value I_{RSM} @ 20µs 50 40 30 20 10 0 20 60 80 0 Time (µs)













Ordering Information

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

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