

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)

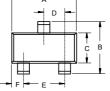
Snap Back ESD Protection Device

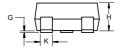
Maximum Ratings

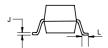
IEC61000-4-2(ESD)	Air	±30KV		
12001000-4-2(200)	Contact	±30KV		
Peak Pulse Power (8/20µs)	PPK	400W		
Peak Pulse Current (8/20µs)(Note 2)	lpp	24A		
Operating Junction Temperature Range	TJ	-55°C to +150°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

Note:

SOT-23

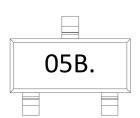




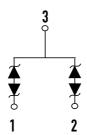


DIMENSIONS					
	DIMENSIONS				
DIM	INC	HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18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

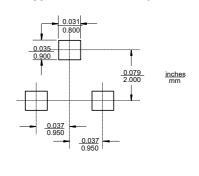
Marking Information



Internal Structure



Suggested Solder Pad Layout

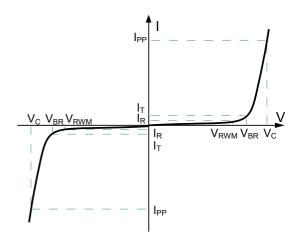


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



Symbol	Parameter		
I _{PP}	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		
I _T	Test Current		
С	Capacitance @V _R =0 and f =1MHz		



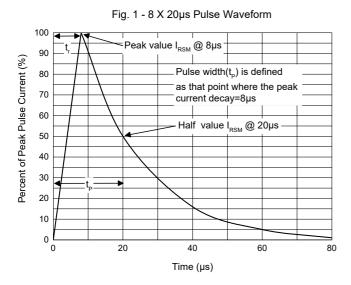
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

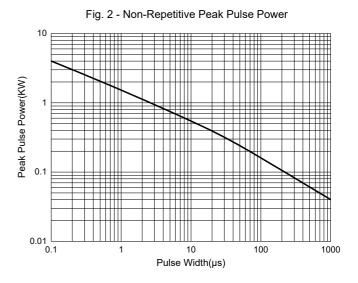
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6.0		7.5	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1.0	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			10	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =10A, t _P =8/20μs			14.5	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =24A, t _P =8/20μs			17	V
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.11		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		50	100	pF

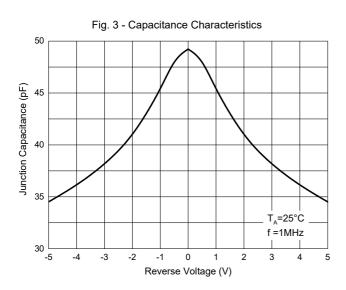
^{1.}Non-repetitive current pulse, according to IEC61000-4-5. 2.TLP parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

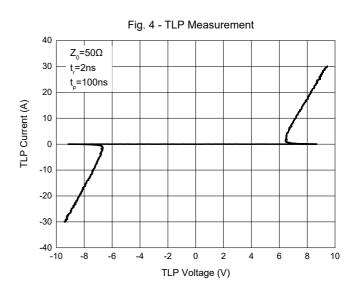


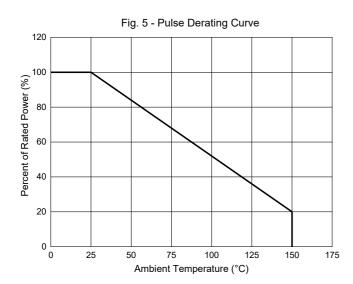
Curve Characteristics













Ordering Information

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

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