

Features

- AEC-Q101 Qualified
- · Dual Line CAN Bus Protector for SOT-23 Package
- · 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

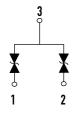
IEC61000-4-2 (ESD)	Air	±30KV		
IEC01000-4-2 (E3D)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	5A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	180W		
Operating Junction Temperature Range	Т	-55°C to +150°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

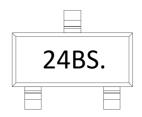
Note:

- 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 $8/20~\mu s$ exponential decay waveform according to IEC61000-4-5.

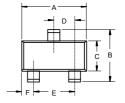
Internal Structure

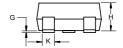
Marking Information





SOT-23

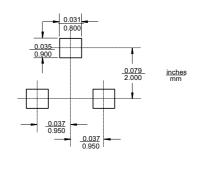






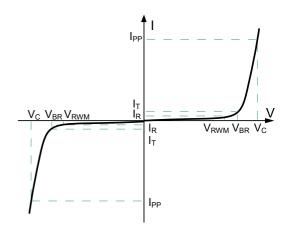
DIMENSIONS						
DIM INC		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18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

Suggested Solder Pad Layout





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)

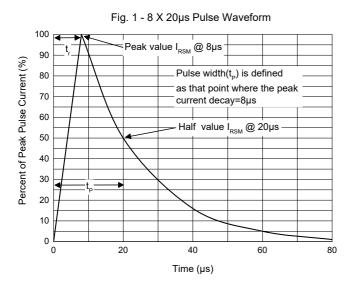
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				24	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	25.5		35.5	V
Reverse Leakage Current	I _R	V _{RWM} =24V		1	50	nA
Clamping Voltage ^{Note1 Note2}	V _C	I _{PP} =1A, t _P =8/20μs		22	32	V
Clamping Voltage ^{Note1 Note2}	V _C	I _{PP} =5A, t _P =8/20μs		27	36	V
Junction Capacitance ^{Note2}	CJ	V _R =0V, f=1MHz		6	10	pF
Dynamic Resistance Note3	R _{DYN}	TLP, t _P =100ns		0.46		Ω

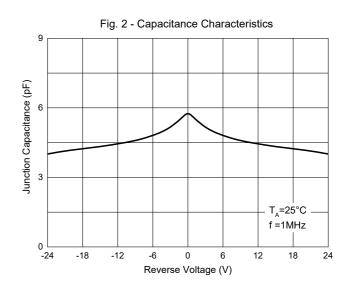
Note:

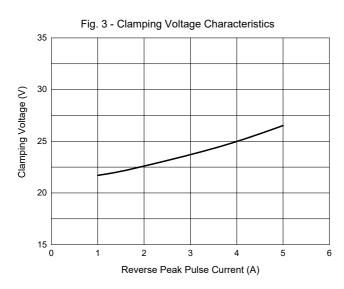
- 1. Non-repetitive current pulse $8/20\mu s$ exponential decay waveform according to IEC61000-4-5.
- 2. Measured from Pin1 to Pin3 or Pin2 to Pin3.
- 3. TLP parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

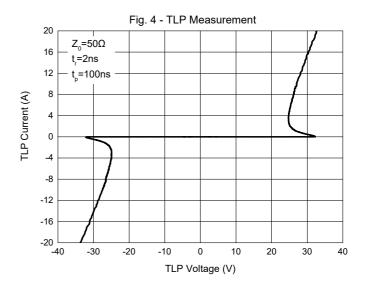


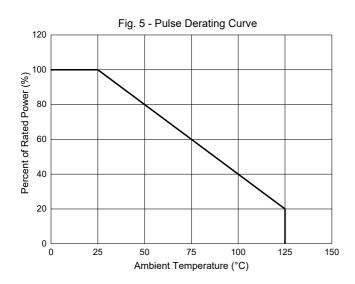
Curve Characteristics













Ordering Information

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

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