

Features

- AEC-Q101 Qualified
- 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	270W		
Peak Pulse Current (8/20µs) ^(Note 2)	IPP	9A		
Operating Junction Temperature Range	Тj	-55°C to +150°C		
Storage Temperature Range	TSTG	-55°C to +150°C		

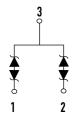


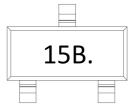
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

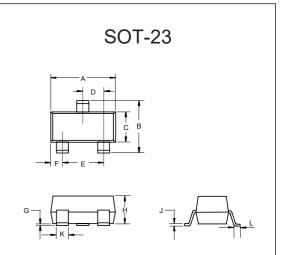
Internal Structure

Marking Code



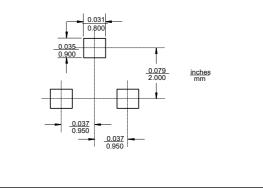






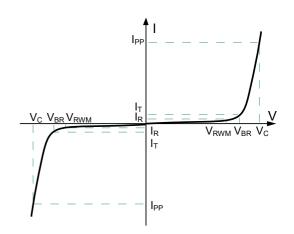
DIMENSIONS					
DIM	INC	INCHES		М	NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
Κ	0.012	0.020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

Suggested Solder Pad Layout





Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
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)

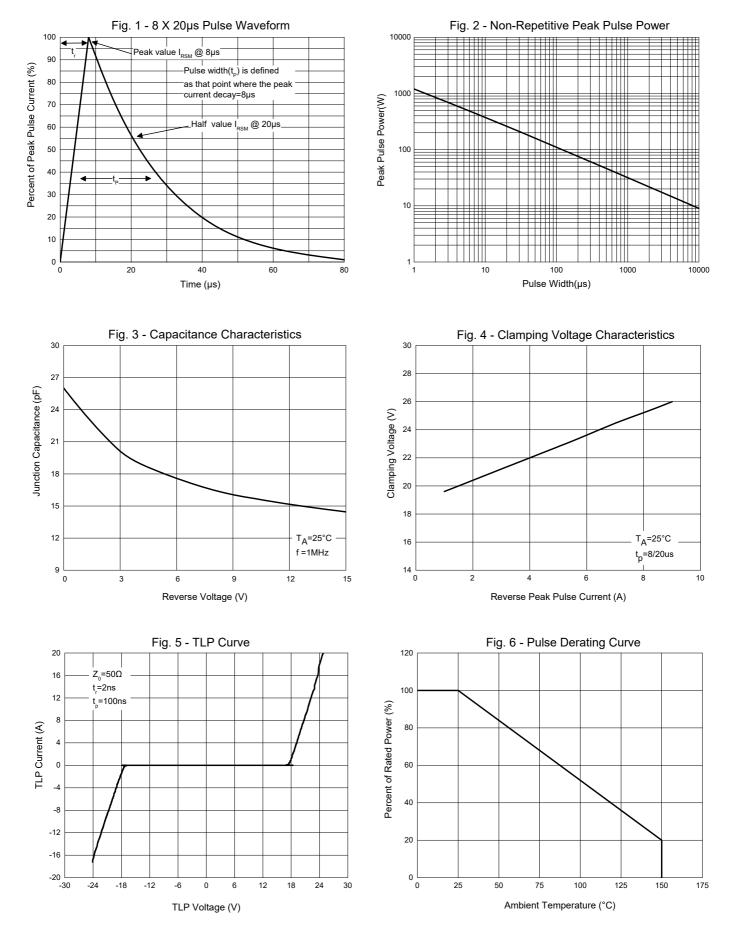
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				15	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	16		19	V
Reverse Leakage Current	I _R	V _{RWM} =15V			0.5	uA
Clamping Voltage ^{Note1}	V _c	I _{PP} =1A, t _P =8/20μs		18	20	V
Clamping Voltage ^{Note1}	Vc	I _{PP} =9A, t _P =8/20μs		27	30	V
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.39		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		26		pF

Note:

1. Non-repetitive current pulse, according to IEC61000-4-5. 2. I/O to Ground, TLP parameter: $Z_0=50\Omega$, $t_p=100$ ns, $t_r=2$ ns, 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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages. *Micro Commercial Components Corp*. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.