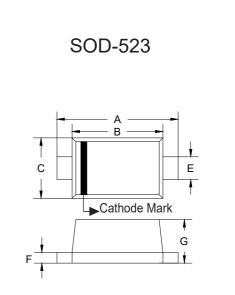


Features

- 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) ٠
- 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	350W		
Peak Pulse Current (8/20µs) ^(Note 2)	IPP	5A		
Operating Junction Temperature Range	Тј	-55°C to +150°C		
Storage Temperature Range	TSTG	-55°C to +150°C		

Note:

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine

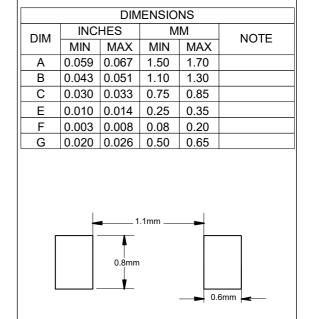
(<1500ppm total Br + Cl) and <1000ppm antimony compounds. 2.Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

Internal Structure



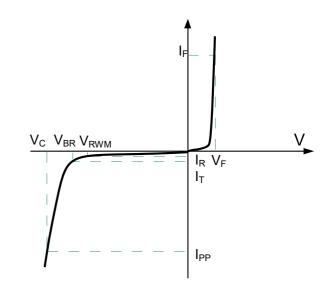
Marking Code







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}				36	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	40		44	V
Reverse Leakage Current	I _R	V _{RWM} =36V			1.0	μA
Clamping Voltage ^{Note1}	V _c	I _{PP} =1A, t _P =8/20μs			55	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =5A, t _P =8/20μs			75	V
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.8		Ω
Junction Capacitance	CJ	V _R =0V, f=1MHz		24	35	pF

Note:

1.Non-repetitive current pulse, according to IEC61000-4-5. 2.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.



1000

T_A=25°C

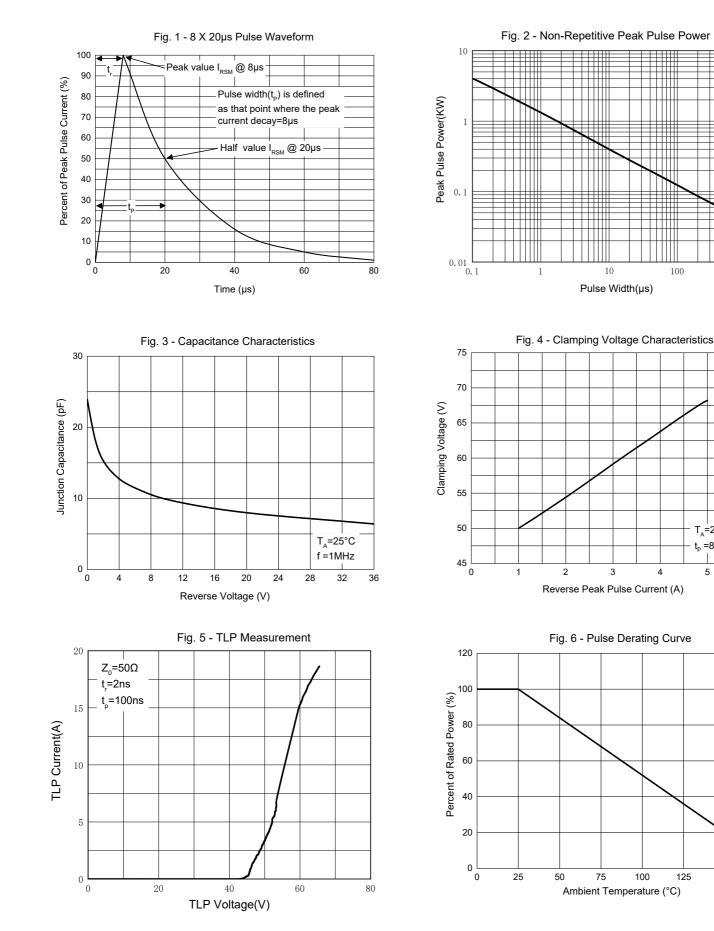
t_p =8/20µs

6

5



Curve Characteristics



175

150



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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