

Features

- AEC-Q101 Qualified
- Low Leakage current
- 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

	Air	±30KV		
IEC61000-4-2 (ESD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	9A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	90W		
Operating Junction Temperature Range	TJ	-55°C to +150°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

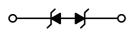
Note :

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 µs exponential decay waveform according to IEC61000-4-5.

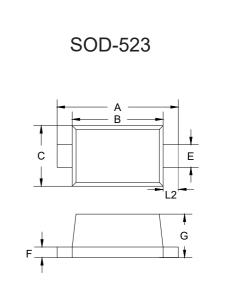


Marking Code



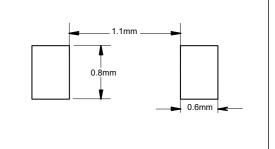






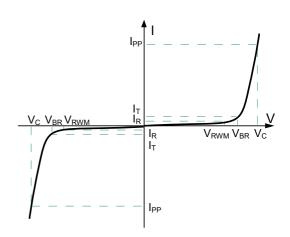
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.043	0.051	1.10	1.30	
С	0.030	0.033	0.75	0.85	
E	0.010	0.014	0.25	0.35	
F	0.003	0.008	0.08	0.20	
G	0.020	0.026	0.50	0.65	
L2	0.004	0.012	0.01	0.03	

Suggested Solder Pad Layout





Symbol	Parameter	
V _{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ VRWM	
V _{BR}	Breakdown Voltage @ IT	
IT	Test Current	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _c	Clamping Voltage @ IPP	
P _{PK}	Peak Pulse Power	
CJ	Junction Capacitance	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	3.5		6	V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			1	μA
Clamping Voltage ^{Note1}	V _c	I _{PP} =1A, t _P =8/20µs			6	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =9A, t _P =8/20µs			10	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		14	25	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.26		Ω

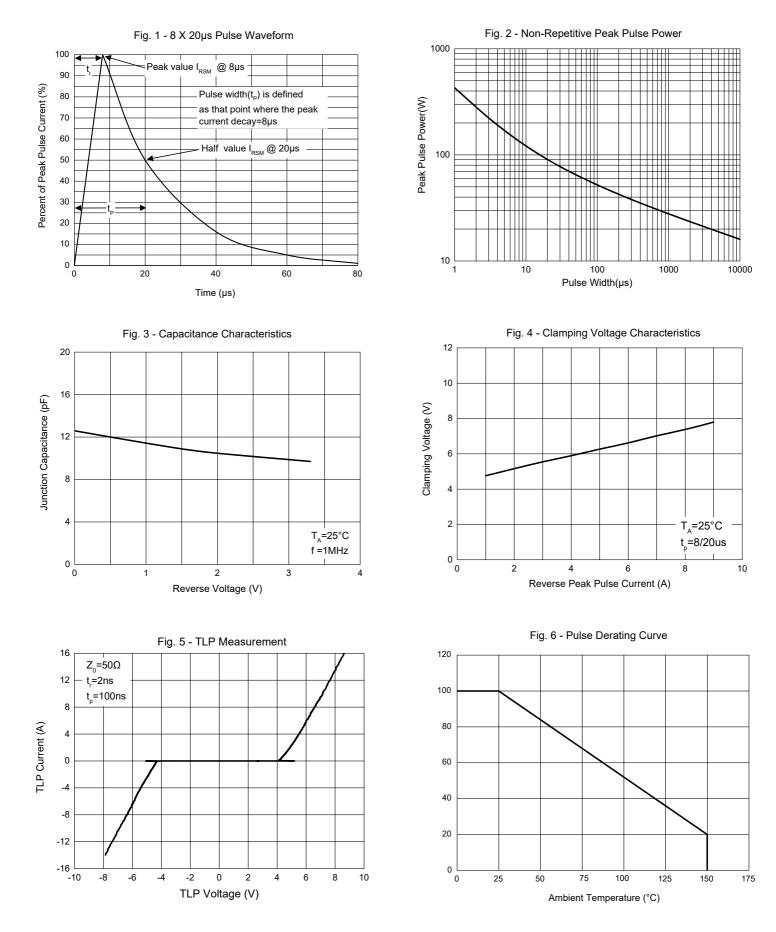
Note :

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

2.TLP parameter: $Z_0=50\Omega$, tp=100ns, tr=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: 8Kpcs/Reel

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