

Features

- · Ultra Low Capacitance
- · Low Operating Voltage
- · Low Clamping Voltage
- Ultra Low Leakage: nA Level
- · Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

ESD Protection Device

Maximum Ratings

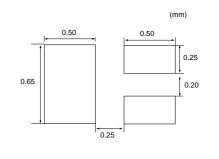
IEC61000-4-2(ESD)	Air	±25KV	
120010000 + 2(200)	Contact	±20KV	
Peak Pulse Power (8/20µs)	PpK	75W	
Peak Pulse Current (8/20µs)(Note 2)	lpp	5A	
Operating Junction Temperature Range	ТJ	-55°C to +125°C	
Storage Temperature Range	TSTG	-55°C to +150°C	

Note:

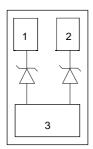
DFN1006-3

DIMENSIONS					
DIM	INC	HES	MM		NOTE
	MIN	MAX	MIN	MAX	NOIL
Α	0.018	0.022	0.45	0.55	
A1	0.000	0.002	0.00	0.05	
b	0.018	0.022	0.45	0.55	
b1	0.004	0.008	0.10	0.20	
С	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
E1	0.006	0.010	0.15	0.25	
е	0.026		0.65		TYP.
L	800.0	0.012	0.20	0.30	
L1	0.0002		0.0002 0.05		TYP.

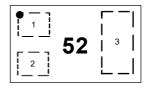
SUGGESTED SOLDER PAD LAYOUT



Internal Structure



Marking Code



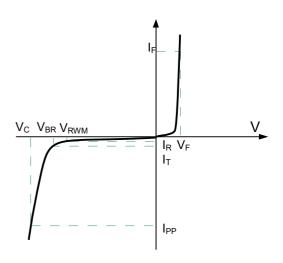
Transparent top view

^{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		
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 per line @ 25°C (Unless Otherwise Specified)

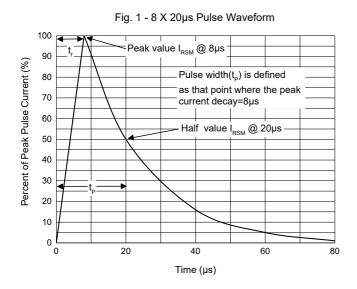
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}	Pin 1 or Pin 2 to Pin 3 and Between Pin 1 and Pin 2			5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA, Pin 1 or Pin 2 to Pin 3 and Between Pin 1 and Pin 2	6.4			V
Reverse Leakage Current	I _R	V _{RWM} = 5V, Pin 1 or Pin 2 to Pin 3 and Between Pin 1 and Pin 2		10	100	nA
Forward Voltage	V_{F}	IF=10mA, Pin 1 or Pin 2 to Pin 3			1.2	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs, Pin 1 or Pin 2 to Pin 3			10	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =5A, t _P =8/20μs, Pin 1 or Pin 2 to Pin 3			15	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Between Pin 1 and Pin 2		0.3	0.5	pF
Junction Capacitance	Сл	V _R = 0V, f = 1MHz, Pin 1 or Pin 2 to Pin 3			0.8	pF

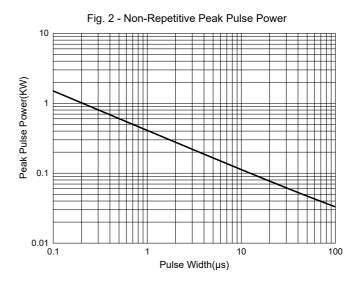
Note

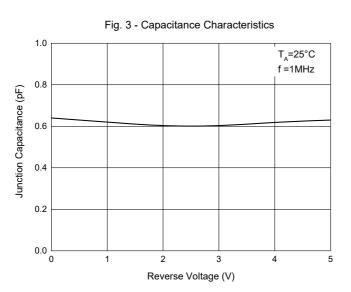
^{1.} Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.

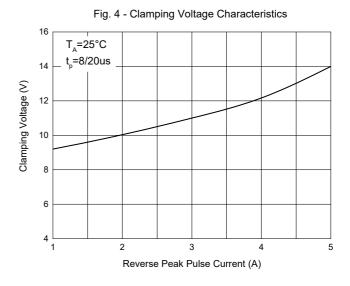


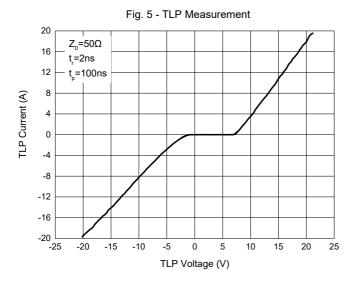
Curve Characteristics

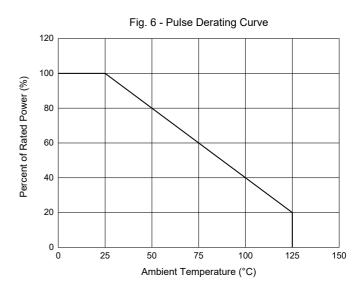














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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