

Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Stand-off Voltage:5V
- Low leakage
- Low clamping voltage
- 500W peak pulse power (tp=8/20us)
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

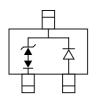
Maximum Ratings

Operating Junction Temperature: -55°C to +125°C

• StorageTemperature: -55°C to +125°C

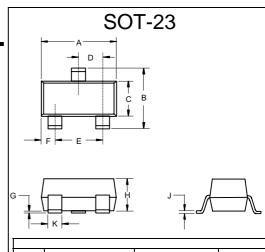
Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		±15	10.7
	Contact		\pm 8	KV
IEC61000-4-5(lightning)			24	Α
Peak Pulse Power		Pd	500	W

Pin Configuration-Top View

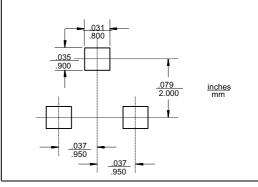


ESDLC5V0T2

5Volts ESD Protection Devices



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	



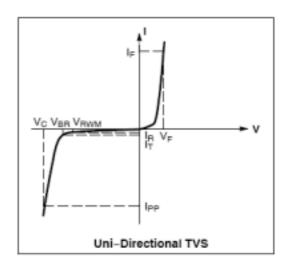


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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

UNIDIRECTIONAL (Circuit tied to Pins 1 and 3 or 2 and 3)

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
I _T	Test Current
I _F	Forward Current
V _F	Forward Voltage @ I _F
P _{pk}	Peak Power Dissipation
С	Capacitance @V _R =0 and f =1MHz



ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}$ C unless otherwise noted, $V_F = 0.9 \text{ V Max.}$ @ $I_F = 10\text{mA}$ for all types)

	V 00	I _R (ű A)	V _{BR} (V	/)		Vc	Vc	P _{nk} + (W)	C (pF)
Device	V _{RWM} (V)	$@V_{RWM}$	@ I _T (Note 2)	Iτ	@IPP =1 A	@IPP=5A	P _{pk} ⁺ (W)	Pin 1 to 3	
	Max	Max	Min	Max	mA	V	V	Max	Тур
ESDLC5V0T2	5	0.5	6.2	7.2	1.0	8	10	500	3.0

 V_{BR} is measured with a pulse test current I_{T} at an ambient temperature of 25°C.



TYPICAL CHARACTERISTICS

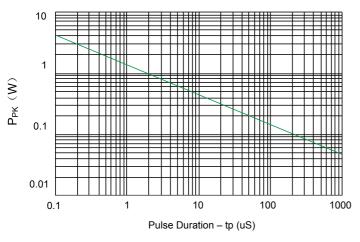


Fig1.Non-Repetitive Peak Pulse Power vs. Pulse time

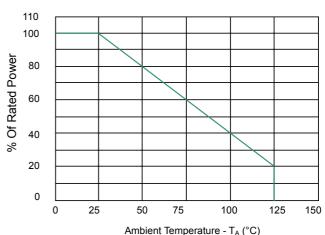


Fig2. Power Derating Curve

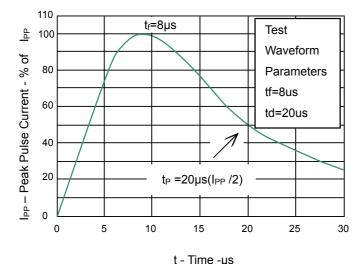


Fig 3.Pulse Waveform



Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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