



1- Line, Bi-directional, Ultra-low Capacitance Transient Voltage Suppressor

Features

Stand-off voltage: 5V Max
Transient protection for each line according to
IEC61000-4-2(ESD): $\pm 15\text{kV}$ (contact)
IEC61000-4-5(surge): 4A (8/20 μs)
Ultra-low capacitance: $C_J = 0.35\text{pF}$ typ
Ultra-low leakage current: $I_R < 1\text{nA}$ typ.
Low clamping voltage Package

Terminals: Tin plated leads, solderable per
J-STD-002 and JESD22-B102

Polarity: Cathode line denotes the cathode end

Marking: 5U

Definitions of Electrical Characteristics



ESDULC5V0LBS

Maximum Ratings

PARAMETER	SYMBOL	Rating	UNIT
Peak pulse power ($t_p = 8/20\mu s$)	P_{pk}	48	W
Peak pulse current ($t_p = 8/20\mu s$)	I_{PP}	4	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 15	KV
ESD according to IEC61000-4-2 contact discharge		± 15	KV
Junction temperature	T_J	125	$^{\circ}C$
Operating temperature	T_{OP}	-40~85	$^{\circ}C$
Storage temperature	T_{STG}	-55~150	$^{\circ}C$

Electrical Characteristics $T_a=25$

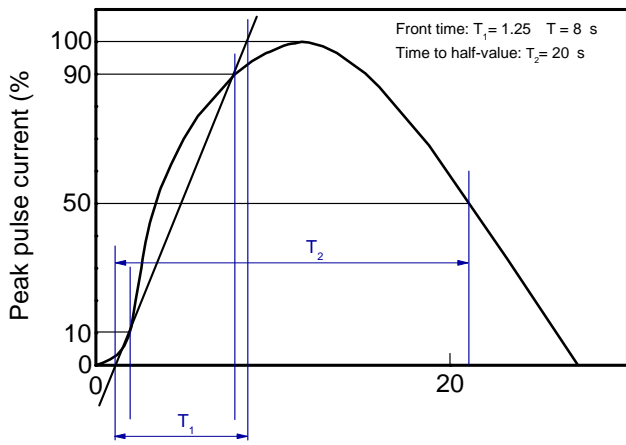


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Characteristics (Typical)

820µs waveform per IEC61000 4 5

Contact discharge current waveform per IEC61000 4 2



Clamping voltage vs. Peak pulse current

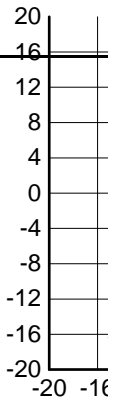
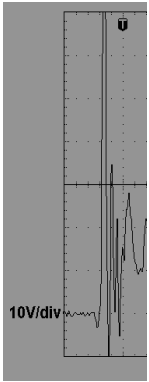
Capacitance vs. Reverse voltage

Non repetitive peak pulse power vs. Pulse time

Power derating vs. Ambient temperature



(+8k



Outline Dim

(6'8/& 9 /%6

v 5HFRPPHQQ ODQG SDWWHUQ 8QLW PP



ESDULC5V0LBS

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