



Micro Commercial Components



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ESD3V3D3

3.3Volts
ESD Protection
Devices

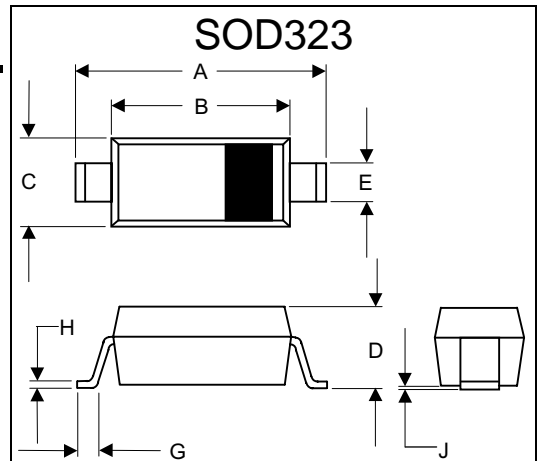
Features

- Halogen free available upon request by adding suffix "-HF"
For sensitive ESD protection
Low clamping voltage
Low leakage
Protects one power or I/O port
ESD protection > 40 kV
Fast response ,response time less than 1ns.
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1

Maximum Ratings

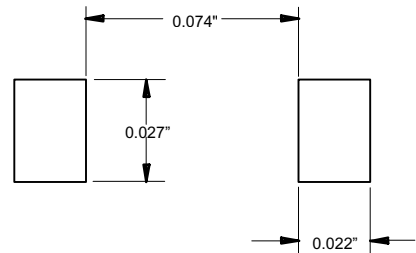
- Operating Junction & Storage Temperature: -55°C to +150°C

Table with 5 columns: Parameter, Symbol, Limits, unit. Rows include IEC61000-4-2(ESD) Air Contact, ESD Voltage per human body mode, and Power Dissipation.



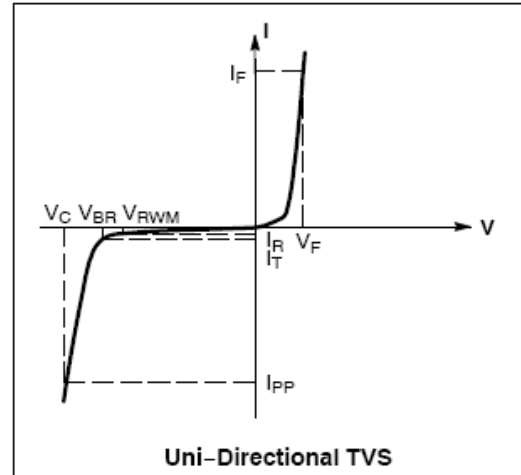
DIMENSIONS table with columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows A through J.

SUGGESTED SOLDER PAD LAYOUT



ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
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
C	Max. Capacitance @ $V_R=0$ and $f=1\text{MHz}$

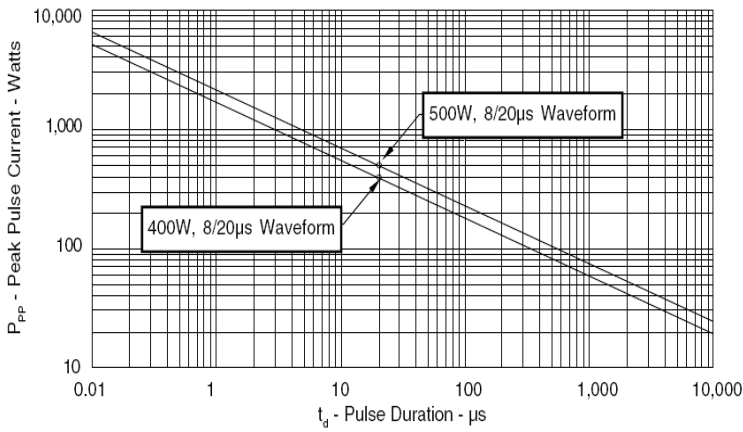


ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

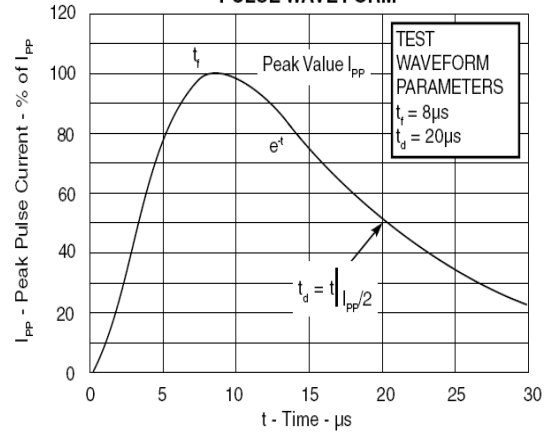
Device	Device Marking	V_{RWM}	I_R (μA)	V_{BR} (V)		I_T	V_C	Cj(pF)
		(V)	@ V_{RWM}	@ I_T (Note 2)	Min			
		Max	Max			mA	@ $I_{PP} = 7\text{A}$	$V_R=0\text{V}$
							V	Typ
ESD3V3D3	---	3.3	1.0	5.0	---	1.0	9.3	100

TYPICAL CHARACTERISTICS

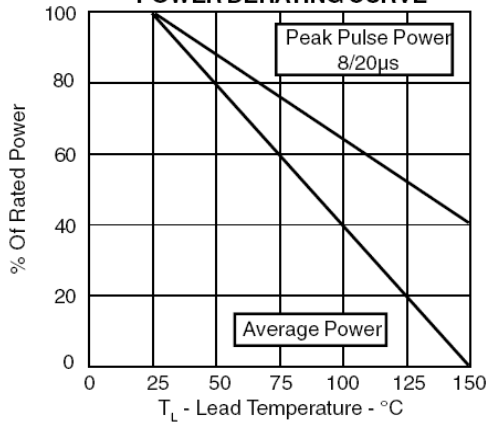
**FIGURE 1
PEAK PULSE POWER VS PULSE TIME**



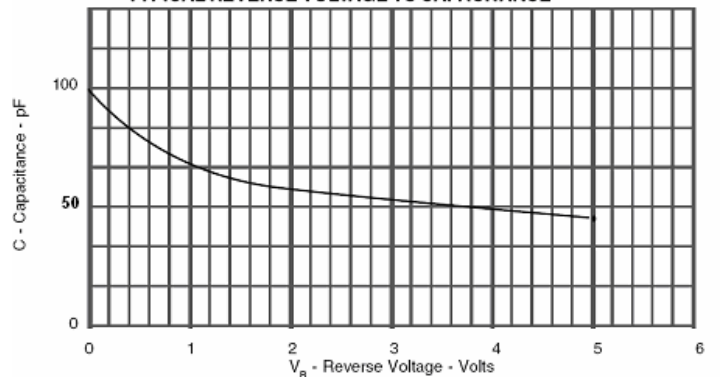
**FIGURE 2
PULSE WAVE FORM**



**FIGURE 3
POWER DERATING CURVE**



**FIGURE 4
TYPICAL REVERSE VOLTAGE VS CAPACITANCE**





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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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