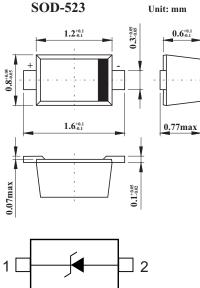


Surface Mount Transient Voltage Suppressor

Features

- Peak Power up to 200 Watts @ 8 x 20 µs Pulse
- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human **Body Model**





Absolute Maximum Ratings Ta = 25 ℃

Parameter	Symbol	Rating	Unit	
ESD Voltage				
Per Human Body Model		16	KV	
Per Machine Model		400	V	
Electrostatic discharge				
IEC61000-4-2 Air discharge		30	KV	
IEC61000-4-2 ContactAir discharge		30		
Electrostatic discharge				
IEC61000-4-4		40	Α	
Total Power Dissipation on FR?5 Board*1, @ TA = 25℃	PD	100	mW	
Junction Temperature Range	TL	260(10s)	$^{\circ}$ C	
Lead Solder Temperature -Maximum	TJ	150	$^{\circ}$	
Storage Temperature Range	Tstg	-55 to +150	$^{\circ}$	

^{*1} FR-5 = 1.0 X 0.75 X 0.62 in.

Electrical Characteristics

(Ta = 25°C unless otherwise noted, VF = 0.9 V Max. @ IF = 10 mA for all types)

Device	VRWM(V)	IR(µA) @VRWM	VBR (V)@ IT*2	lτ	Vc(V)*1 @IPP=5.0A	Vc(V)*1 @Max Ipp	IPP(A) *1	Ррк(W)*1	C(pF)
	Max	Max	Min	mA	Тур	Max	Max	Max	Тур
ESD5Z7.0	7.0	0.01	7.5	1.0	13.5	22.7	8.8	200	65

^{1.} Surge current waveform per Fig.1

^{2.} VBR is measured with a pulse test current IT at an ambient temperature of 25.°C



Typical Characteristics

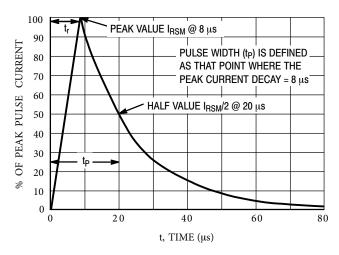
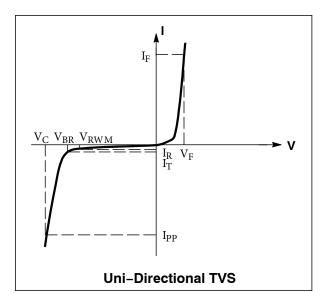


Figure 1. 8 x 20 μs Pulse Waveform



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