

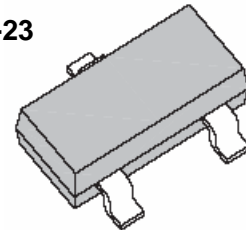
500W Surface Mount Transient Voltage Suppressor Arrays



Features

- 500W Peak Pulse Power (tp=8/20µs)
- Available in multiple voltage types ranging from 3V to 36 V
- Unidirectional & Bidirectional configurations
- Low clamping voltage
- RoHS Compliant

SOT-23



Mechanical Data

Case:	SOT-23 Plastic Package
Epoxy:	Meets UL 94V-0 flammability rating
Polarity:	See Marking Information
Terminals:	Soderable per MIL-STD-750, Method 208
Mounting position:	Any
Weight:	0.008 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit	Conditions
PPPM	Peak Pulse Power Dissipation @ tp=8/20µs	500	W	Non-repetitive current pulse
V_F	Forward Voltage @ 100mA, 300µs-square wave	1.5	V	
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-55 to 150	° C	

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TVT03AW - TVT36AW

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Part No.	Device Marking Code	Max. Reverse Stand-Off Voltage	Breakdown Voltage @ Test Current			Max. Clamping Voltage @ IPPM 8*20 μ s	Max. Peak Pulse Current	Max. Off-State Capacitance @1MHz, 0V
			V _{BR}		I _T (mA)			
			V _{RWM} (V)	Min.				
TVT03AW	1AC	3	4	-	1	6.5	43	500
TVT05AW	2AC	5	6	-	1	9.8	43	350
TVT08AW	3AC	8	8.5	-	1	13.4	34	250
TVT12AW	4AC	12	13.3	-	1	19	21	150
TVT15AW	5AC	15	16.7	-	1	24	17	100
TVT24AW	6AC	24	26.7	-	1	43	12	88
TVT36AW	7AC	36	40	-	1	51	9	80

Typical Characteristics Curves

Fig.1- Peak Pulse Power Rating Curve

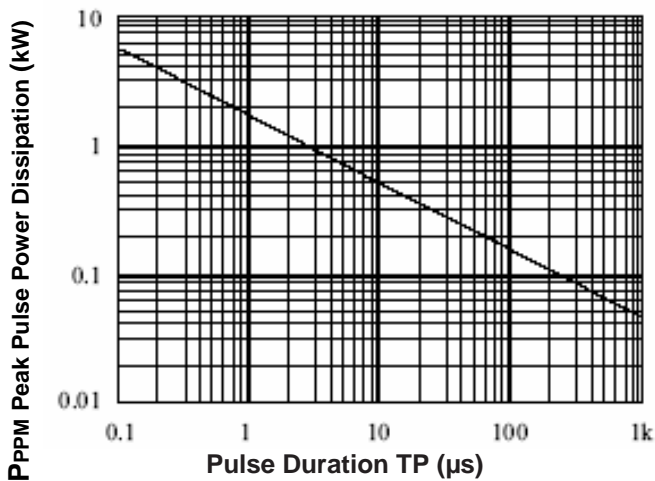
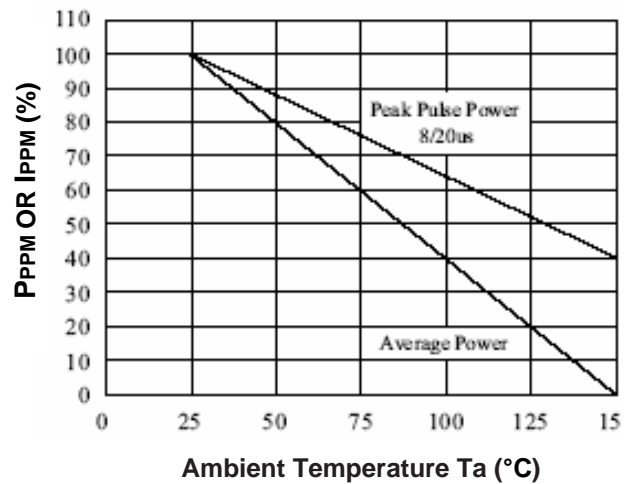


Fig.2- Power Deration Curve



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Fig.3- Pulse Waveform

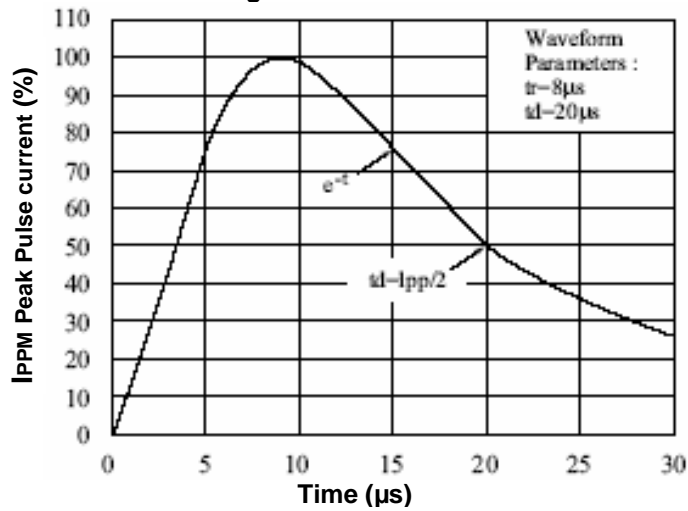
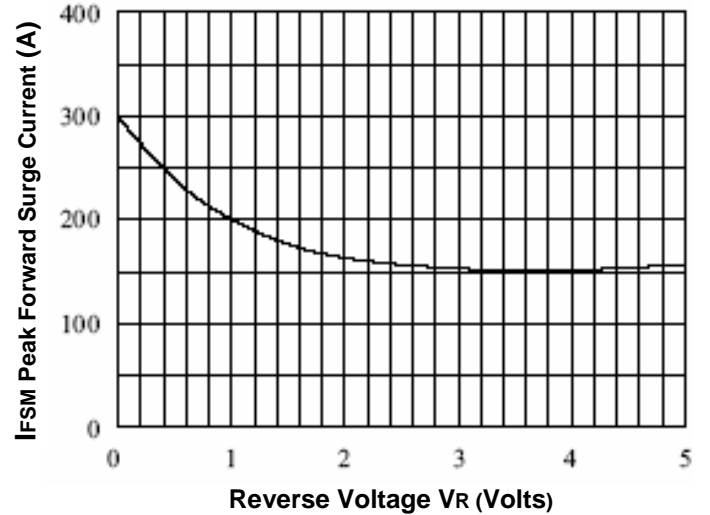
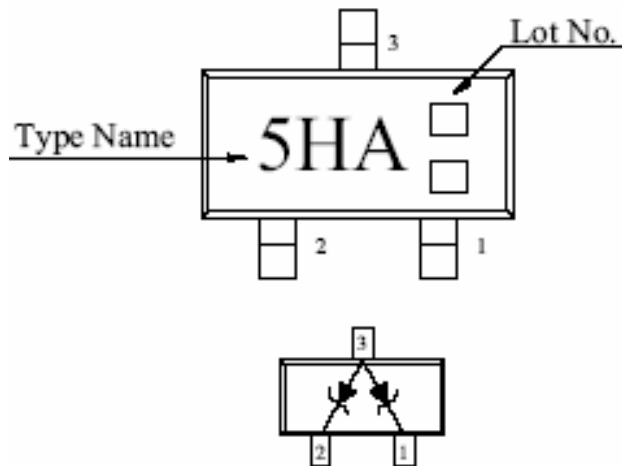


Fig.4-CJ - VR



Marking Information

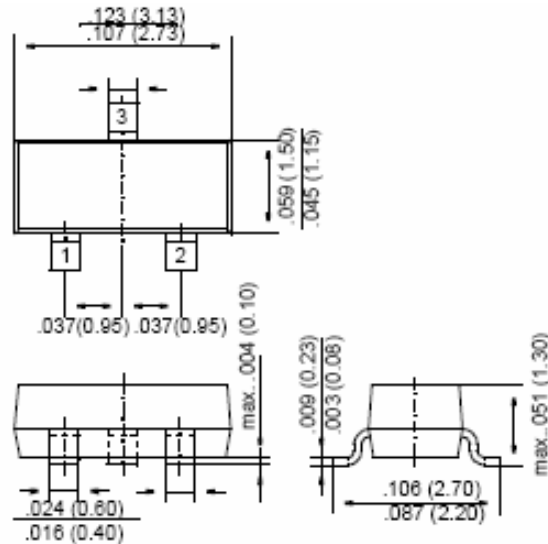


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TVT03AW - TVT36AW

Dimensions in inches and (millimeters)

SOT-23



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