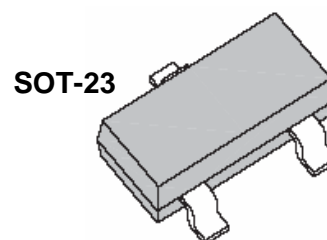


350W Surface Mount Transient Voltage Suppressor Arrays

Features

- 350W Peak Pulse Power ($t_p=8/20\mu s$)
- Transient protection for data lines to
IEC 61000-4-2(ESD) 15kV(Air),8kV(Contact)
IEC 61000-4-4(EFT) 40A ($t_p=5/50ns$)
IEC 61000-4-5(Lightening) 24A ($t_p=8/20\mu s$)
- Protects one Bidirectional line or two Unidirectional Lines
- Low clamping voltage
- Low leakage current
- RoHS Compliant



Mechanical Data

Case:	SOT-23 Plastic Package
Epoxy:	Meets UL 94V-0 flammability rating
Polarity	See Marking Information
Mounting position:	Any
Weight:	0.008 gram

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

Symbol	Description	Value	Unit	Conditions
V_{RWM}	Reverse Stand-Off Voltage	5	V	
P_{PPM}	Peak Pulse Power Dissipation @ $t_p=8/20\mu s$	350	W	Non-repetitive current pulse
I_{PPM}	Peak Pulse current @ $t_p=8/20\mu s$	24	A	Non-repetitive current pulse
I_R	Reverse Leakage Current	20	μA	VRWM=5V
V_C	Max. Clamping Voltage	14.5	V	I _{PPM} =24A, $t_p=8/20\mu s$
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-55 to 150	$^{\circ}C$	

350W Surface Mount Transient Voltage Suppressor Arrays

TVT5R0AW

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.				
TVT5R0AW	5HA	5	6	-	1	14.5	24	400

Typical Characteristics Curves

Fig.1- Peak Pulse Power Rating Curve

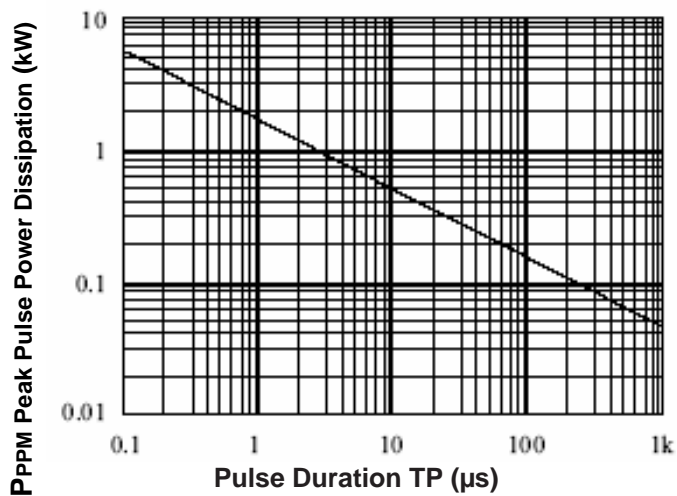
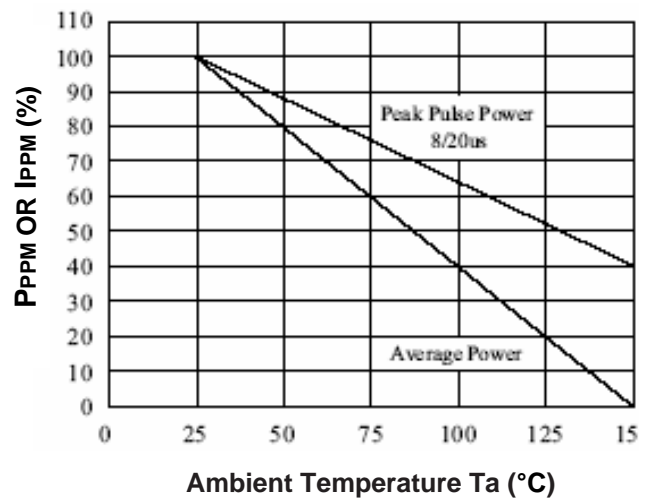


Fig.2- Power Deration Curve



350W Surface Mount Transient Voltage Suppressor Arrays

TVT5R0AW

Fig.3- Pulse Waveform

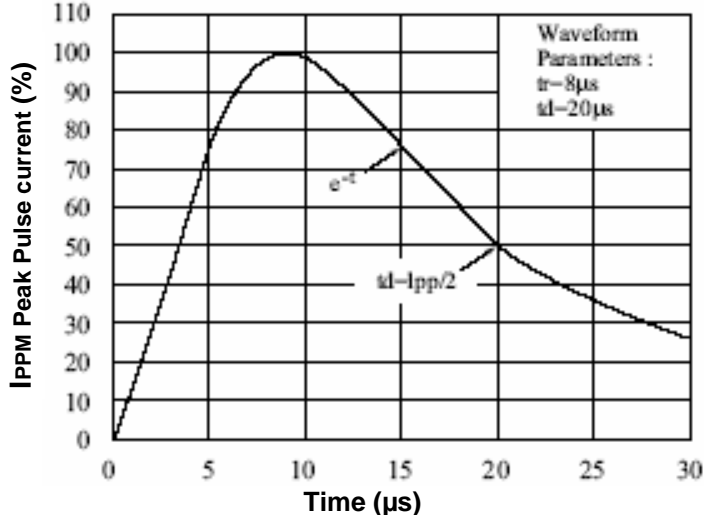
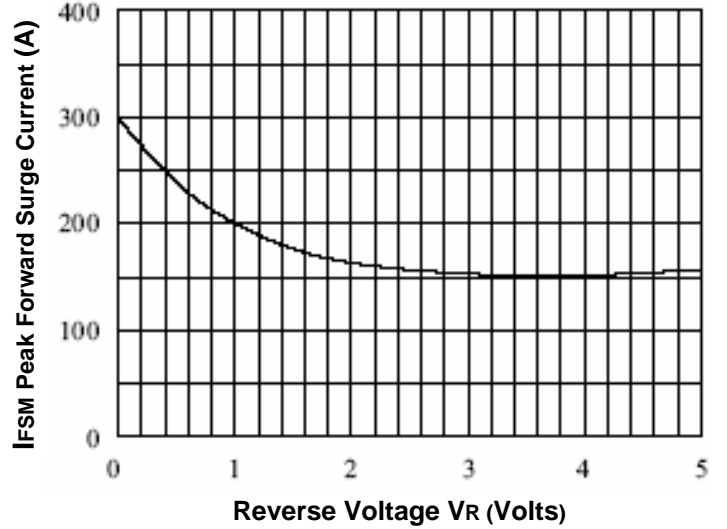
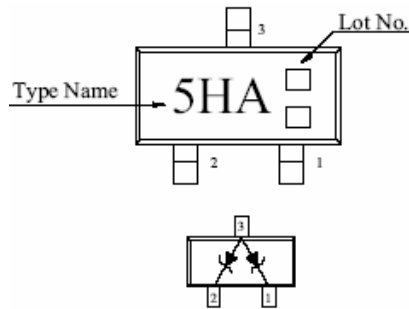


Fig.4-CJ - VR

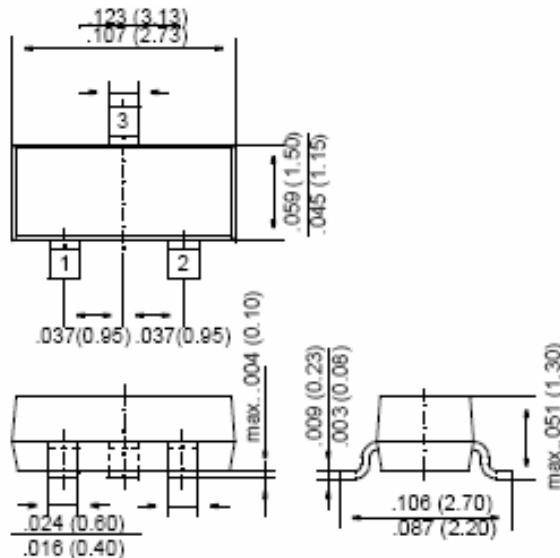


Marking Information



Dimensions in inches and (millimeters)

SOT-23



350W Surface Mount Transient Voltage Suppressor Arrays

TVT5R0AW

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONETS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONETS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

CROSS REGION PLAZA, 899 LINLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931