WEITRON

WOST03C thru WOST36C

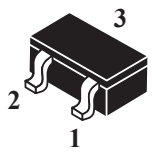
Surface Mount TVS Diode Array for ESD Protection

TRANSIENT VOLTAGE SUPPRESSORS 300 WATTS 3-36 VOLTS

Lead(Pb)-Free

Features:

* Transient Protection for data lines as per IEC 61000-4-2(ESD)15KV(air), 8KV(contact)
* 300 Watts Peak Power Protection. (tp=8/20μS)
* Protects Two Unidirectional Lines with pin3 used as a common anode Connection or One Bidirectional Line between pin1 & pin2
* Low Leakage Current
* Excellent Clamping Capability
* Transient Voltage Suppressors Encapsulated in a SC-59 Package

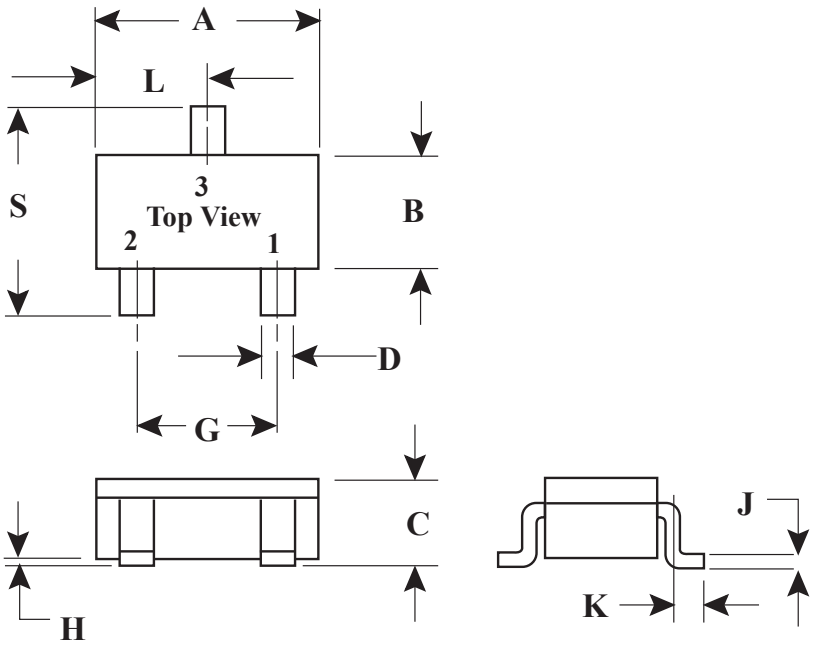


SC-59

Mechanical Data:

* Case : Molded Epoxy
* Marking : Marking Code
* Weight : 0.008 grams(approx)

SC-59 Outline Dimension



SC-59		
Dim	**Min**	**Max**
A	2.70	3.10
B	1.30	1.70
C	1.00	1.30
D	0.35	0.50
G	1.70	2.30
H	0.00	0.10
J	0.10	0.26
K	0.20	0.60
L	1.25	1.65
S	2.25	3.00

All Dimension in mm

Maximum Ratings(T_A=25˚C Unless Otherwise Noted)

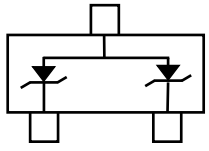
Characteristic	Symbol	Votle	Unit
Peak Pulse Power Dissipation (t_P = 8/20μs)	P_{PK}	300	W
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	556	℃/W
Lead Soldering Temperature	T_L	260(10s)	℃
Operating Temperature Range	T_J	-55 to +125	℃
Storage Temperature Range	T_{stg}	-55 to +150	℃

Electrical Characteristics(T_A=25˚C Unless Otherwise Noted)

Part Number	Marking Code	Reverse Stand off Voltage	Breakdown Voltage VBR@1mA	Max Clamping Voltage @1A	Max Clamping Voltage @5A	Max Reverse Leakage @VRWM	Capacitance @∂V,IMHZ PIN 1-3 or PIN 2-3
		VRWM(V)	MIN(V)	Vc(V)	Vc(V)	I_R (uA)	(PF)
WOST03C	M03	3.3	4-5	7.0	8.5	100	700
WOST05C	M05	5.0	6.1-7.4	9.8	11	12	420
WOST12C	M12	12.0	13.3-16.3	19.0	24	0.5	150
WOST15C	M15	15.0	16.7-20.4	24.0	30	0.5	100
WOST24C	M24	24.0	26.7-32.6	43.0	55	0.5	60
WOST36C	M36	36.0	40.0-47.0	60.0	75	0.5	60

NOTE:1. Suffix"C" denotes Bi-directional device.

Eqivalent Circuit Diagram:



Bidirectional Configuration

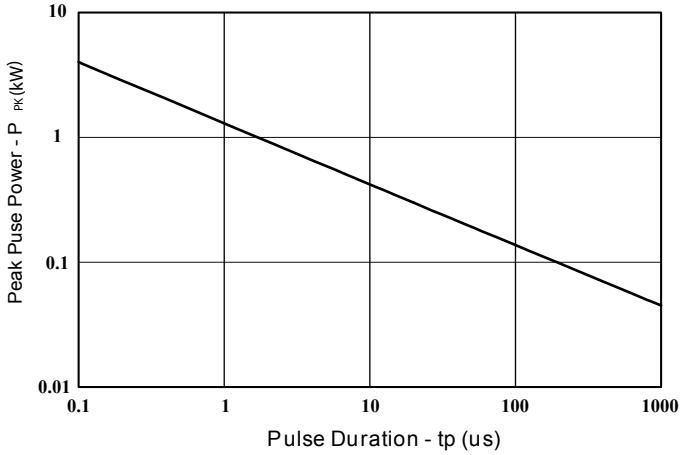


FIG.1 Non-Repetitive Peak Pulse Power vs. Pulse Time

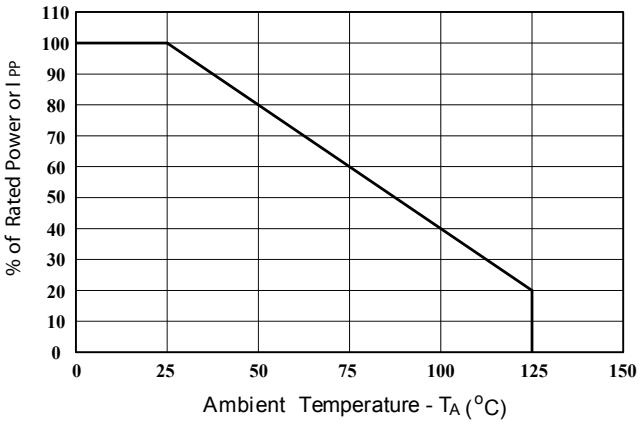


FIG.2 Power Derating Curve

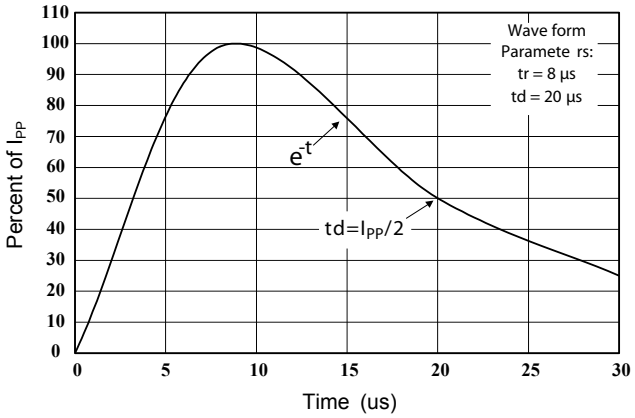


FIG.3 Pulse Waveform