

### Transient Voltage Suppressors for ESD Protection

 Lead(Pb)-Free

#### FEATURES:

- \* Bidirectional
- \* Low leakage current
- \* High temperature soldering guaranteed :  
260°C/10 seconds at terminals

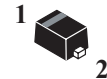
#### MECHANICAL DATA:

- \* Case: JEDEC SOD-523 molded plastic
- \* Polarity: See connection diagram
- \* Mounting Position: Any
- \* Marking Code: 5C

**TRANSIENT VOLTAGE  
SUPPRESSORS**

**10 WATTS**

**6.8 VOLTS**



**SOD-523/SC-79**



#### MAXIMUM RATINGS ( At TA = 25°C unless otherwise noted )

RATINGS	Symbol	Value	Unit
Peak Pulse Power @ tp = 8X20μ Sec	PPK	10	W
Power Dissipation	P <sub>D</sub>	150	mW
Operating Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

#### ELECTRICAL CHARACTERISTICS ( At TA = 25°C unless otherwise noted )

Parameter	Symbol	Min	Typ	Max	Unit
Breakdown Voltage @ I <sub>T</sub> =1.0mA	V <sub>BR</sub>	5.780	-	7.820	V
Maximum Reverse Leakage V <sub>R</sub> =3.5V	I <sub>R</sub>	-	-	0.5	μA
Typical Junction Capacitance V <sub>R</sub> =0V, F=1MHz	C <sub>T</sub>	-	-	30	pF

**Typical Characteristics** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

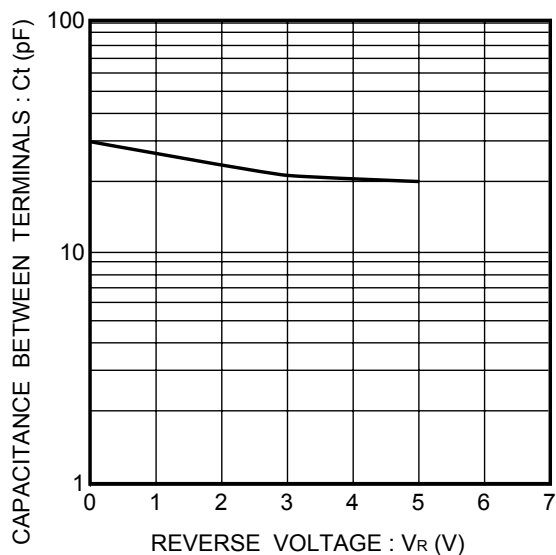


Fig.1 Capacitance between terminals characteristics

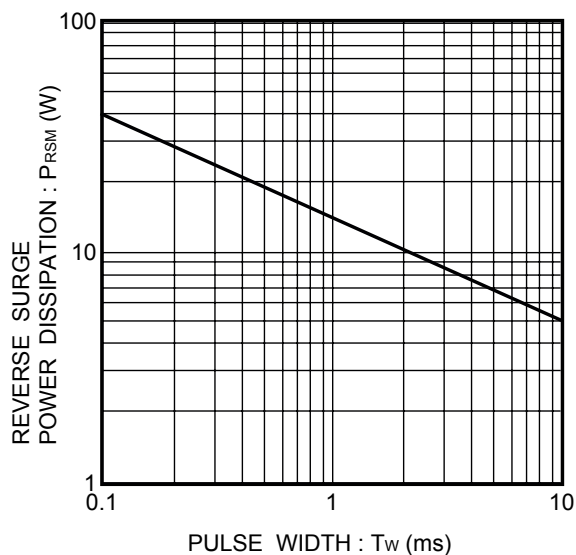
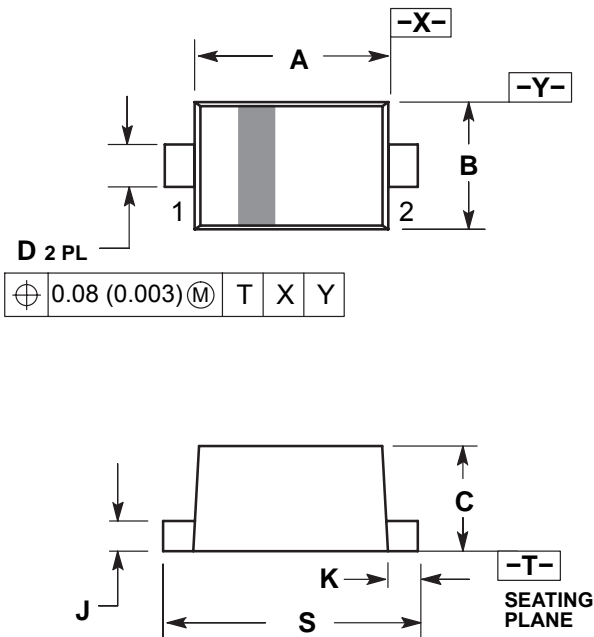


Fig.2 Surge power dissipation

SOD-523 Outline Dimensions

Unit:mm



MILLIMETERS			
DIM	MIN	NOM	MAX
A	1.10	1.20	1.30
B	0.70	0.80	0.90
C	0.50	0.60	0.70
D	0.25	0.30	0.35
J	0.07	0.14	0.20
K	0.15	0.20	0.25
S	1.50	1.60	1.70