

Transient Voltage Suppressors for ESD Protection

Pb Lead(Pb)-Free

FEATURES:

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

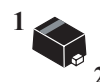
MECHANICAL DATA:

- * 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 _D	150	mW
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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

Parameter	Symbol	Min	Typ	Max	Unit
Breakdown Voltage @ I _T =1.0mA	V _{BR}	5.780	-	7.820	V
Maximum Reverse Leakage V _R =3.5V	I _R	-	-	0.5	μA
Typical Junction Capacitance V _R =0V, F=1MHz	C _T	-	-	30	pF

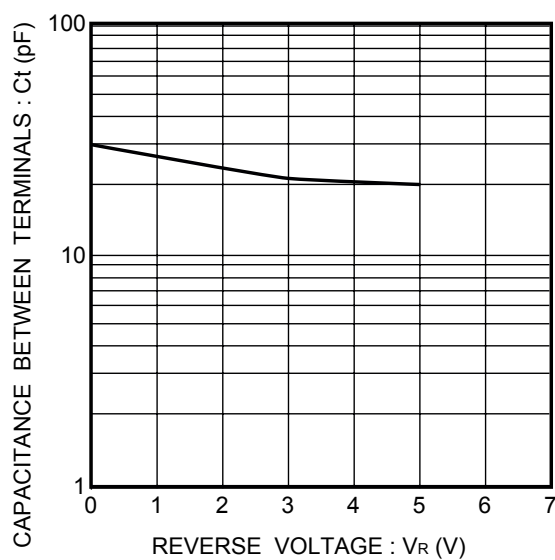
Typical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.1 Capacitance between terminals characteristics

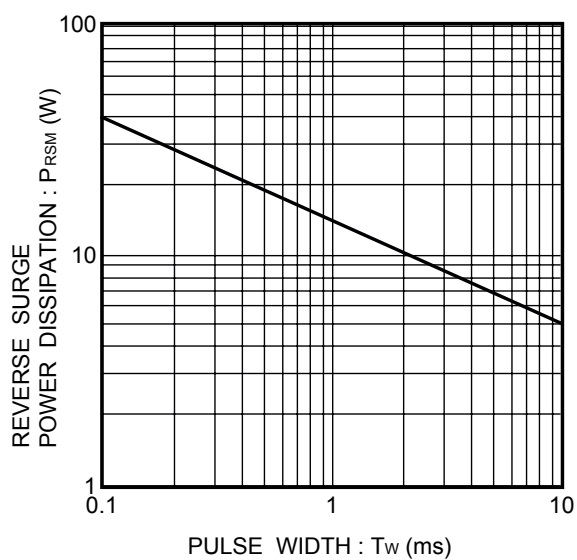
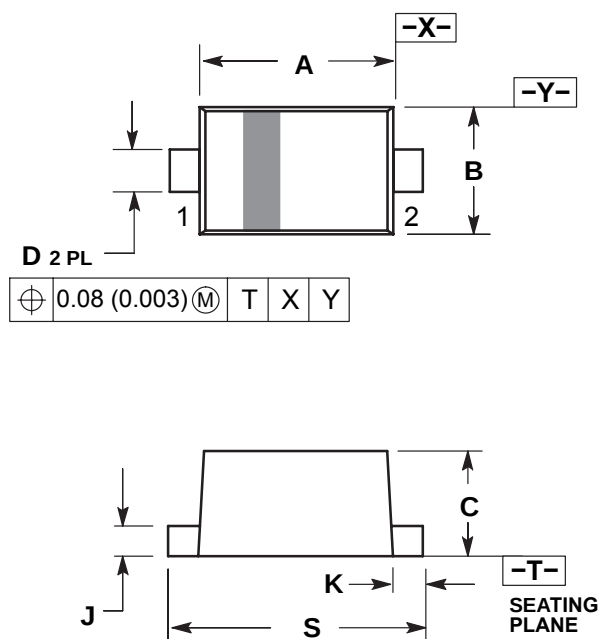


Fig.2 Surge power dissipation

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