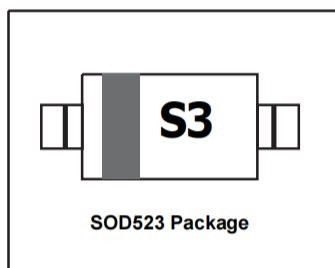


## FEATURES

- ◆ Small package
- ◆ Low forward voltage
- ◆ Low reverse current

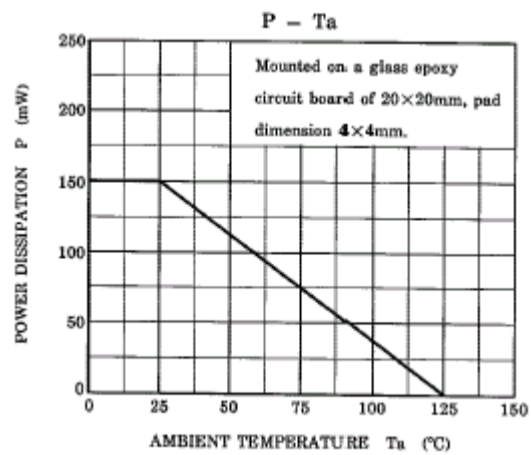
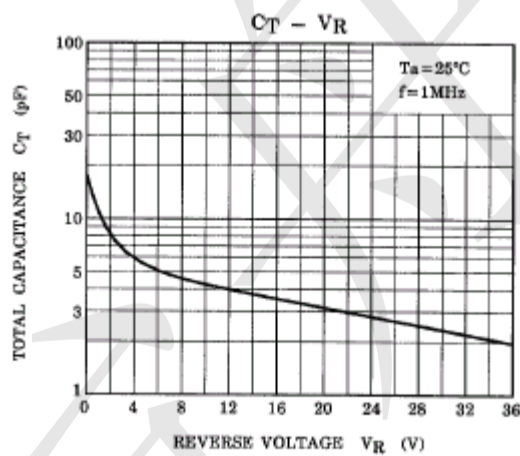
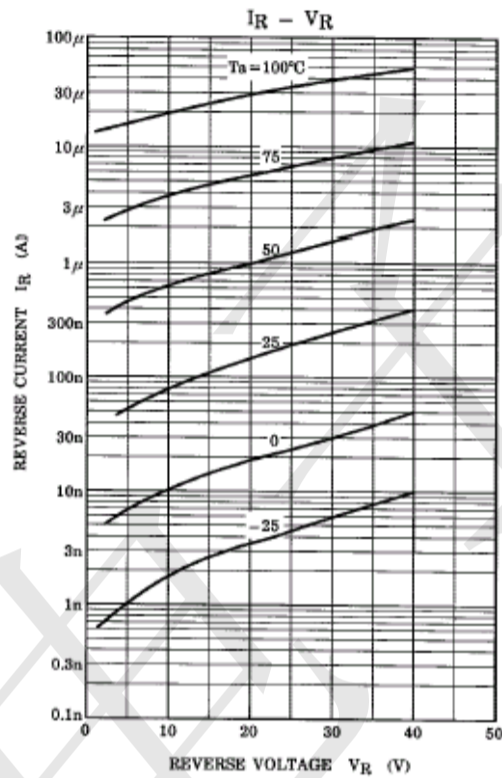
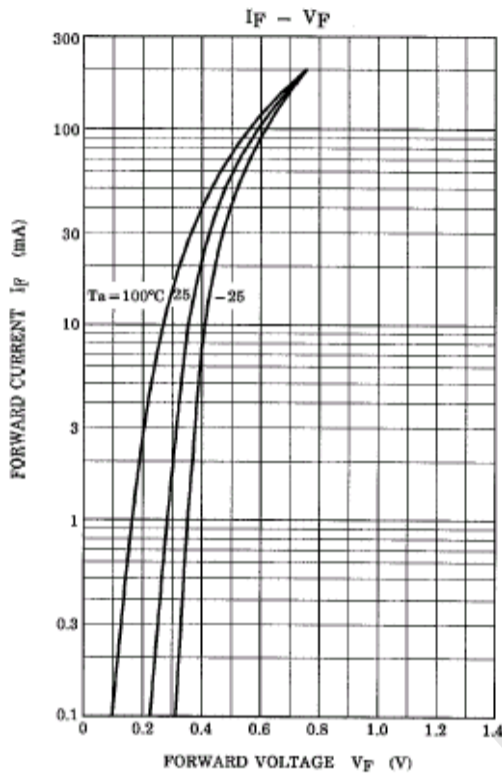


## Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

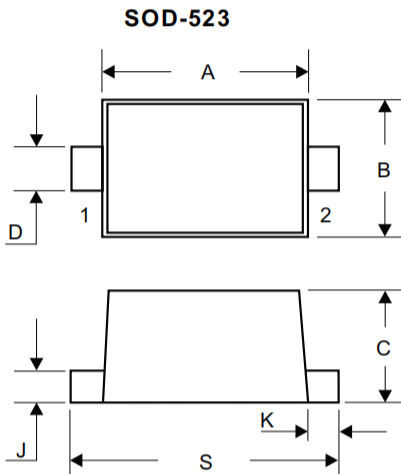
Parameter	Symbol	Value	Unit
Maximum (Peak) Reverse Voltage	$V_{RM}$	45	V
Reverse Voltage	$V_R$	40	V
Average Forward Current	$I_O$	100	mA
Maximum (Peak) Forward Current	$I_{FM}$	300	mA
Surge Current (10 ms)	$I_{FSM}$	1	A
Power Dissipation	$P_{tot}$	150	mW
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Operating Temperature Range	$T_{opr}$	- 40 to + 100	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 125	$^\circ\text{C}$

**Characteristics at  $T_a = 25\text{ }^\circ\text{C}$**

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$	$V_F$	0.6	V
Reverse Current at $V_R = 10\text{ V}$	$I_R$	1	$\mu\text{A}$
Reverse Current at $V_R = 40\text{ V}$	$I_R$	5	$\mu\text{A}$
Total Capacitance at $f = 1\text{ MHz}$	$C_T$	25	pF



## Outline Drawing - SOD-523



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.10	1.30	0.043	0.051
B	0.70	0.90	0.028	0.035
C	0.50	0.70	0.020	0.028
D	0.25	0.35	0.010	0.014
J	0.07	0.20	0.0028	0.0079
K	0.15	0.25	0.006	0.010
S	1.50	1.70	0.059	0.067

## Land Pattern - SOD-523

### Recommended Mounting Pad Layout

