

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- High Speed Switching
- Low Forward Voltage

## MECHANICAL DATA

- Terminals: Solder Plated, Solderable MIL-STD-750
- Polarity: Indicated by Cathode Band
- Mounting Position: Any

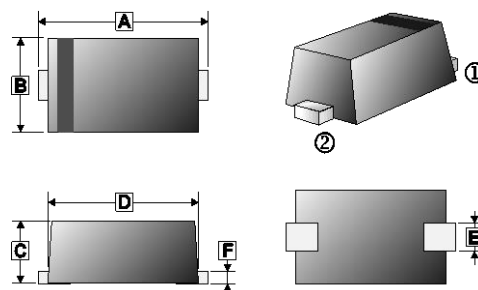
## MARKING

S3

JV

B

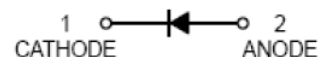
## SOD-523



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	D	1.10	1.30
B	0.70	0.90	E	0.25	0.40
C	0.50	0.77	F	-	0.20

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	8K	7 inch



## ORDER INFORMATION

Part Number	Type
SCS388S-C	Lead (Pb)-free and Halogen-free

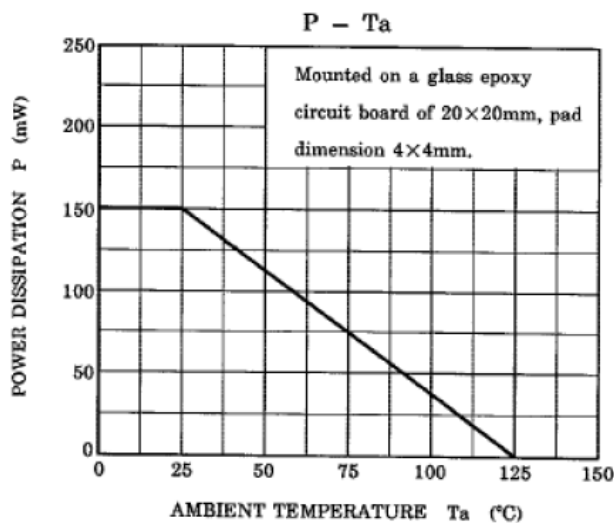
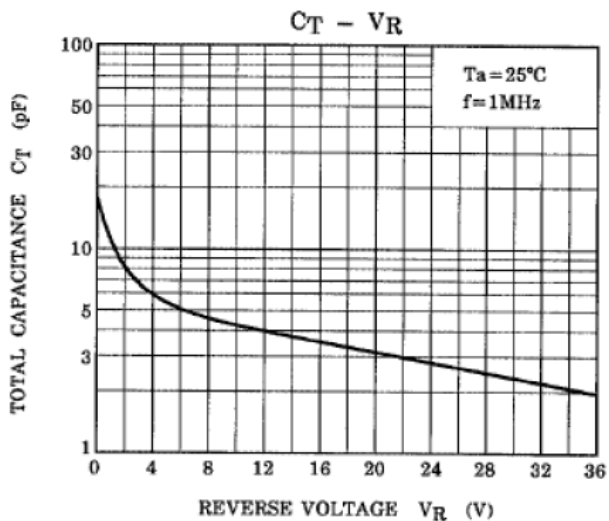
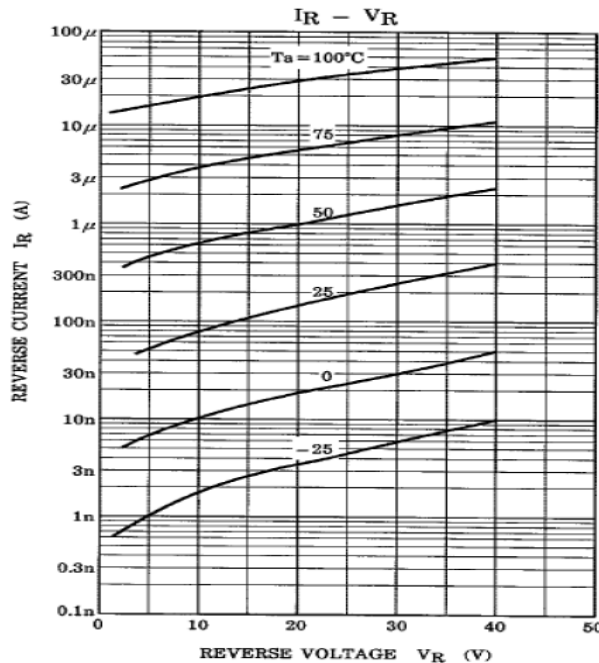
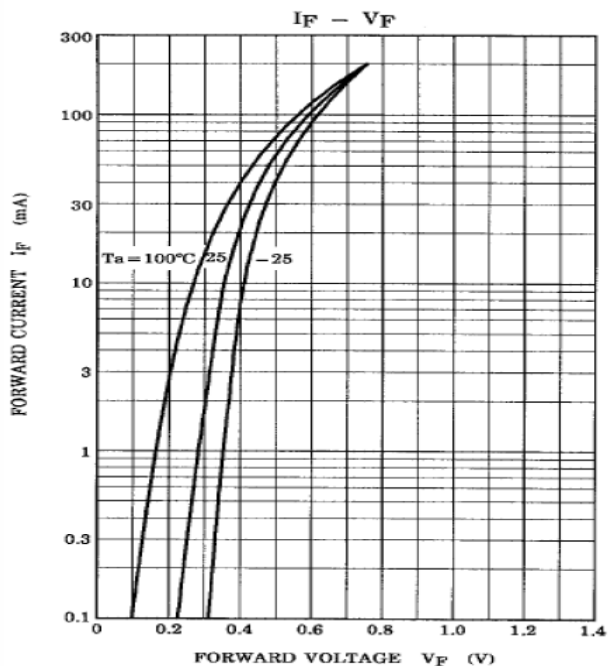
## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Peak Reverse Voltage	V <sub>RM</sub>	45	V
DC Reverse Voltage	V <sub>R</sub>	40	V
Peak Forward Current	I <sub>FM</sub>	300	mA
Average Forward Current	I <sub>O</sub>	100	mA
Surge Current (t=10ms)	I <sub>FSM</sub>	1000	mA
Power Dissipation	P <sub>D</sub>	150	mW
Operating Temperature Range	T <sub>OPR</sub>	-40~100	°C
Junction, Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55~150	°C

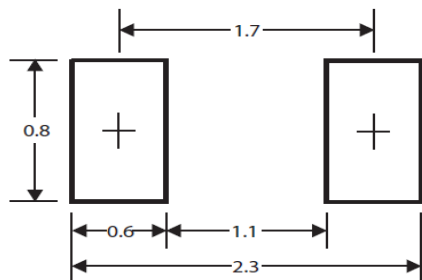
## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V <sub>F</sub>	-	0.28	-	V	I <sub>F</sub> =1mA
		-	0.36	-		I <sub>F</sub> =10mA
		-	0.54	0.6		I <sub>F</sub> =50mA
Reverse Voltage Leakage Current	I <sub>R</sub>	-	-	5	μA	V <sub>R</sub> =10V
Total Capacitance	C <sub>T</sub>	-	18	-	pF	V <sub>R</sub> =0, f=1MHz

**CHARACTERISTIC CURVES**



**Mounting Pad Layout**



\*Dimensions in millimeters