

RoHS Compliant Product

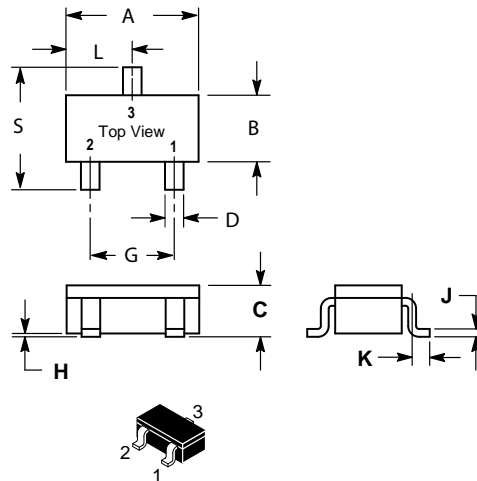
A suffix of "-C" specifies halogen & lead-free

**FEATURES**

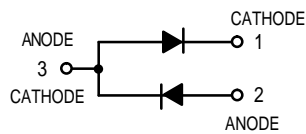
- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection

**MECHANICAL DATA**

- Case: SOT-346, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagrams Below
- Weight: 0.008 grams (approx.)
- Mounting Position: Any



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		



**● Absolute maximum ratings (Ta = 25°C)**

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V <sub>RM</sub>	45	V
DC reverse voltage	V <sub>R</sub>	40	V
Mean rectifying current	I <sub>o</sub>	30	mA
Peak forward surge current *	I <sub>FSM</sub>	200	mA
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-40~+125	°C

\*60 Hz for 1

**● Electrical characteristics (Ta = 25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	0.37	V	I <sub>F</sub> =1mA
Reverse current	I <sub>R</sub>	-	-	1	μA	V <sub>R</sub> =10V
Capacitance between terminals	C <sub>T</sub>	-	2.0	-	pF	V <sub>R</sub> =1V, f=1MHz

Note) ESD sensitive product handling required.

RATING AND CHARACTERISTIC CURVES (SCS706D)

●Electrical characteristic curves (Ta = 25°C)

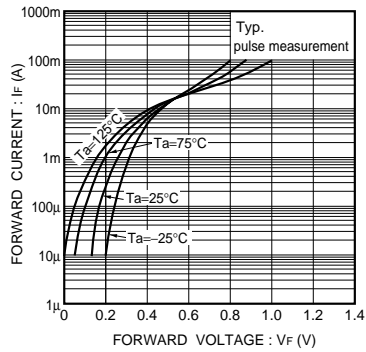


Fig. 1 Forward characteristics

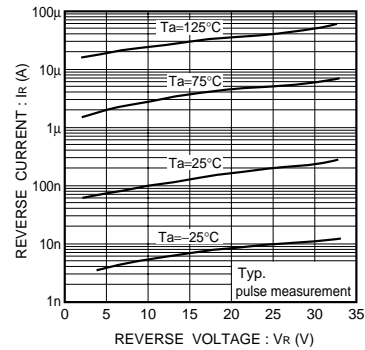


Fig. 2 Reverse characteristics

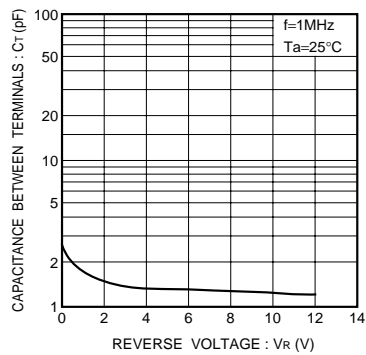


Fig. 3 Capacitance between terminals characteristics

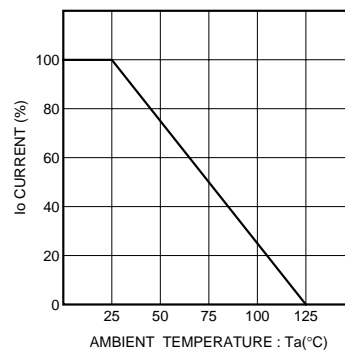


Fig 4. Derating curve (mounting on glass epoxy PCBs)