

RoHS Compliant Product

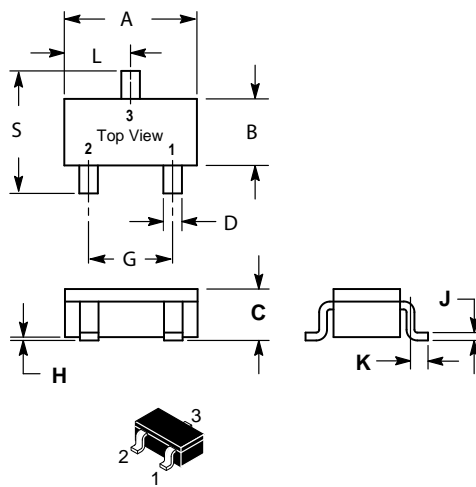
A suffix of "-C" specifies halogen & lead-free

**FEATURES**

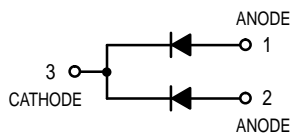
- Low Turn-on Voltage
- Low power rectification
- Fast Switching

**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		



SCS425D Marking : KL4

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

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V <sub>RM</sub>	40	V
DC reverse voltage	V <sub>R</sub>	40	V
Mean rectifying current	I <sub>o</sub>	0.1	A
Peak forward surge current*	I <sub>FSM</sub>	1	A
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-40~+125	°C

\* 60Hz for 1

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F1</sub>	-	-	0.55	V	I <sub>F</sub> =100mA
Forward voltage	V <sub>F2</sub>	-	-	0.34	V	I <sub>F</sub> =10mA
Reverse current	I <sub>r</sub>	-	-	30	μA	V <sub>R</sub> =10V
Capacitance between terminals	C <sub>T</sub>	-	6.0	-	pF	V <sub>R</sub> =10V, f=1MHz

Note) ESD sensitive product handling required.

RATING AND CHARACTERISTIC CURVES (SCS425D)

● Electrical characteristic curves (Ta = 25°C)

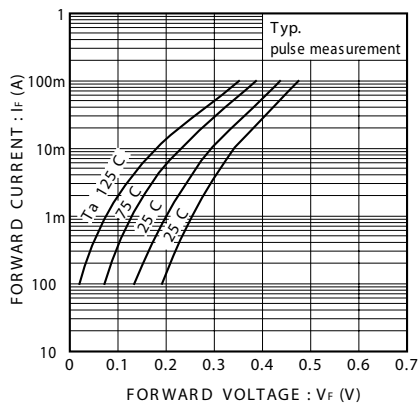


Fig. 1 Forward characteristics

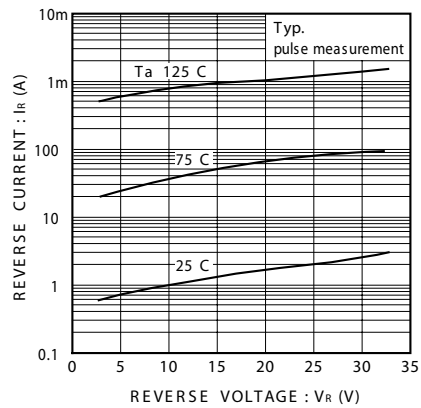


Fig. 2 Reverse characteristics

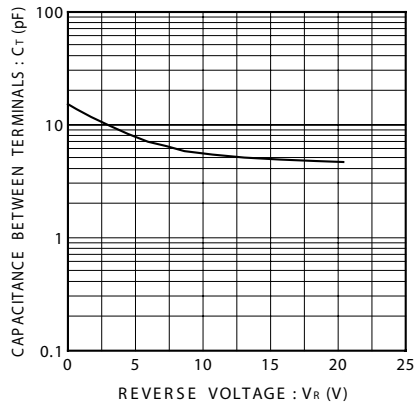


Fig. 3 Capacitance between terminals characteristics

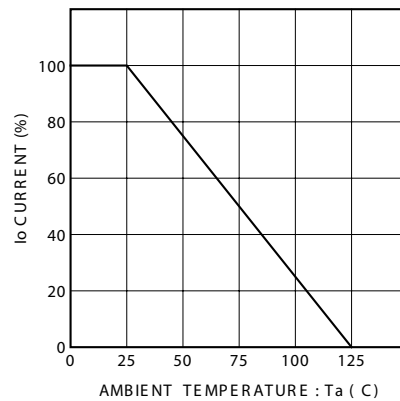


Fig. 4 Derating curve (mounting on glass epoxy PCBs)