Elektronische Bauelemente

SCS425D

VOLTAGE 40V

SC-59 Types

0.1AMP Surface Mount Schottky Barrier Rectifiers

RoHS Compliant Product

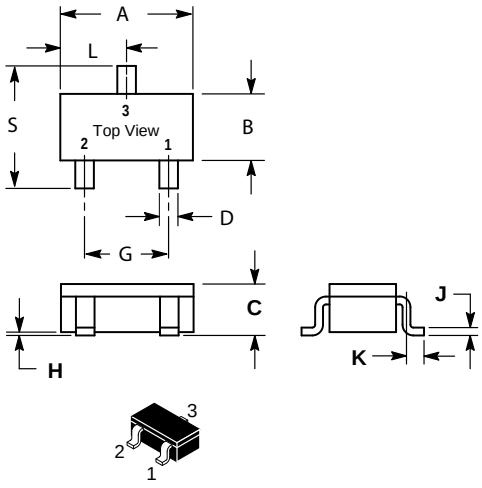
A suffix of "-C" specifies halogen & lead-free

FEATURES

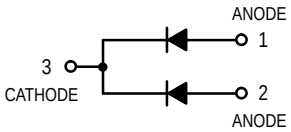
- Low Turn-on Voltage
- Low power rectification
- Fast Switching

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_{RM}	40	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	0.1	A
Peak forward surge curren*	I_{FSM}	1	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–40~+125	°C

* 60Hz for 1 ⌓

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	–	–	0.55	V	I_F=100mA
Forward voltage	V_{F2}	–	–	0.34	V	I_F=10mA
Reverse current	I_R	–	–	30	μA	V_R=10V
Capacitance between terminals	C_T	–	6.0	–	pF	V_R=10V, f=1MHz

Note) ESD sensitive product handling required.

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RATING AND CHARACTERISTIC CURVES (SCS425D)

● **Electrical characteristic curves** (Ta = 25°C)

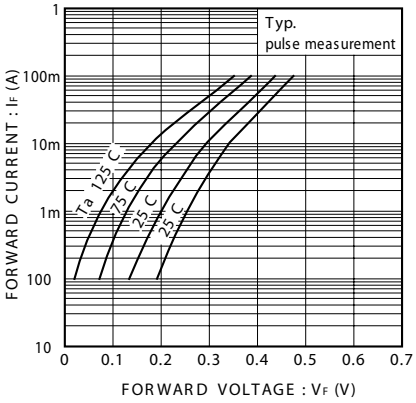


Fig. 1 Forward characteristics

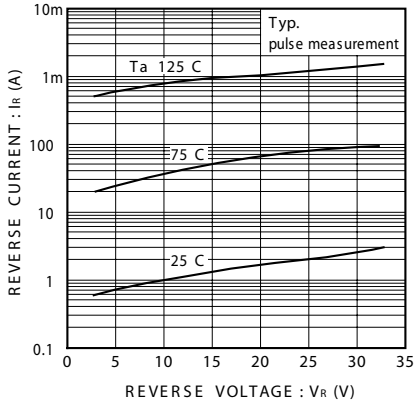


Fig. 2 Reverse characteristics

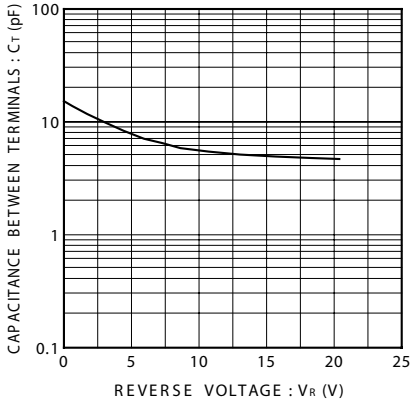


Fig. 3 Capacitance between terminals characteristics

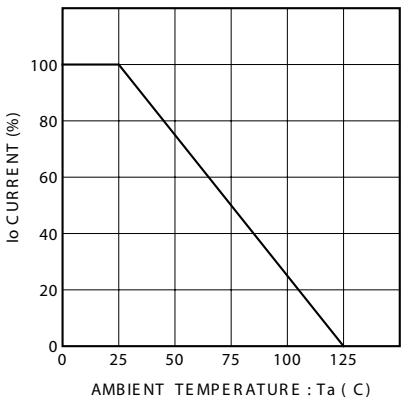


Fig. 4 Derating curve (mounting on glass epoxy PCBs)