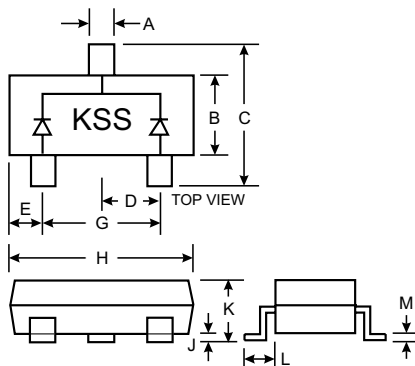


### Features

- Low Forward Voltage Drop
- Common Cathode Configuration

### Mechanical Data

- Case: SC-59, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Marking: KSS + Date Code
- Weight: 0.008 grams (approx.)



SC-59		
Dim	Min	Max
A	0.30	0.50
B	1.40	1.80
C	2.50	3.00
D	0.85	1.05
E	0.30	0.70
G	1.70	2.10
H	2.70	3.10
J	—	0.10
K	1.00	1.40
L	0.55	0.70
M	0.10	0.35
All Dimensions in mm		

### Maximum Ratings @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	40	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	28	V
Average Rectified Current (Note 1)	I <sub>O</sub>	0.4	A
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I <sub>FSM</sub>	2	A
Power Dissipation	P <sub>d</sub>	400	mW
Operating Temperature Range	T <sub>OP</sub>	-30 to +85	°C
Junction Temperature Range	T <sub>J</sub>	-30 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-40 to +125	°C

### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V <sub>(BR)R</sub>	40	—	—	V	I <sub>R</sub> = 500μA
Forward Voltage (Note 2)	V <sub>F</sub>	—	—	300 500	mV	I <sub>F</sub> = 10mA I <sub>F</sub> = 200mA
Leakage Current (Note 2)	I <sub>R</sub>	—	—	70	μA	V <sub>R</sub> = 25V
Junction Capacitance	C <sub>j</sub>	—	—	100	pF	V <sub>R</sub> = 0V, f = 1.0MHz

- Notes:
1. Mean output current per element: I<sub>O</sub>/2.
  2. Short duration test pulse to minimize self-heating effect.

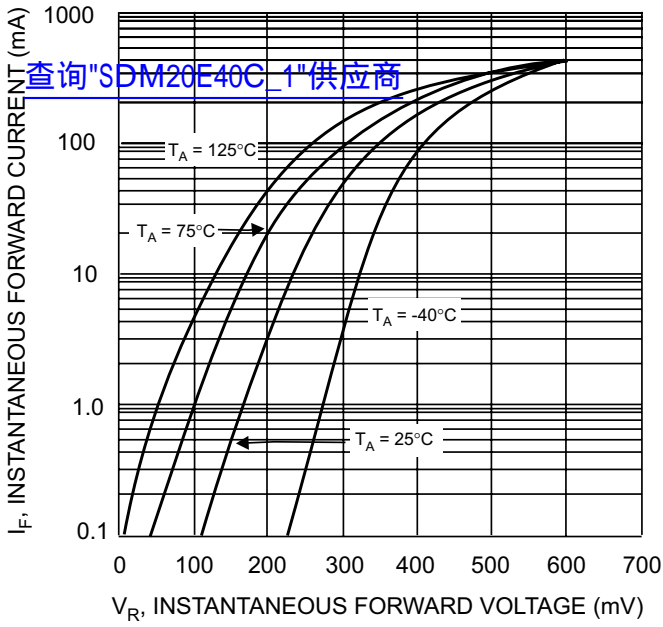


Fig. 1 Typical Forward Characteristics

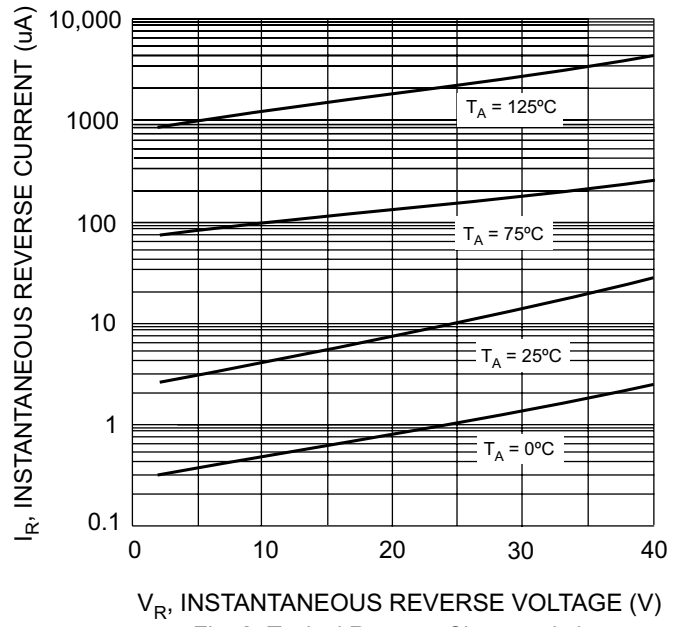


Fig. 2 Typical Reverse Characteristics

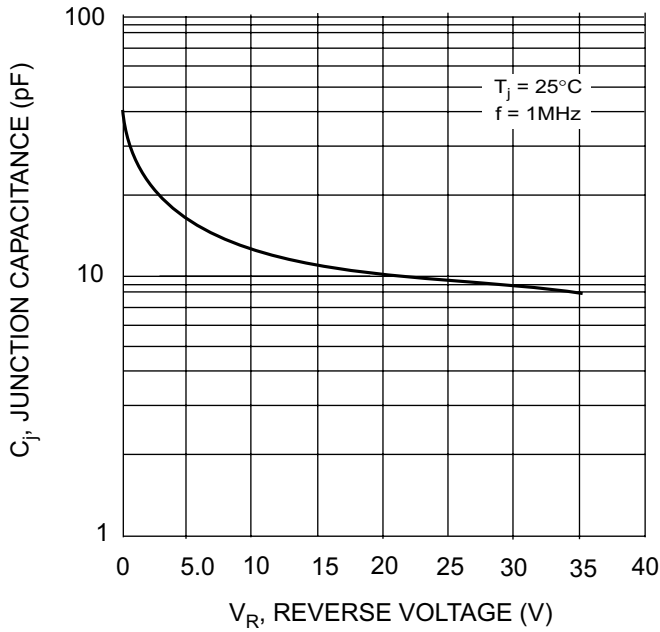


Fig. 3 Typical Junction Capacitance