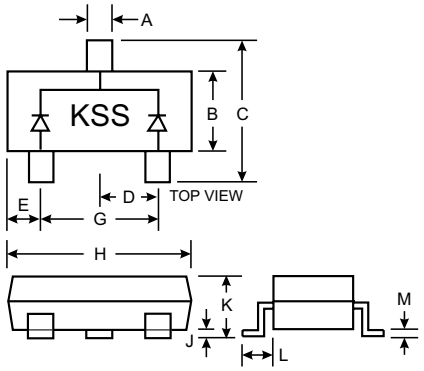
SDM20E40C

DUAL SURFACE MOUNT SCHOTTKY BARRIER DIODE

NEW PRODUCT

Features

- Low Forward Voltage Drop
- Common Cathode Configuration



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		

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.)

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Rectified Current (Note 1)	I_O	0.4	A
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I_{FSM}	2	A
Power Dissipation	P_d	400	mW
Operating Temperature Range	T_{OP}	-30 to +85	°C
Junction Temperature Range	T_j	-30 to +125	°C
Storage Temperature Range	T_{STG}	-40 to +125	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	$V_{(BR)R}$	40	—	—	V	I_R = 500μA
Forward Voltage (Note 2)	V_F	— —	— —	300 500	mV	I_F = 10mA I_F = 200mA
Leakage Current (Note 2)	I_R	—	—	70	μA	V_R = 25V
Junction Capacitance	C_j	—	—	100	pF	V_R = 0V, f = 1.0MHz

Notes: 1. Mean output current per element: $I_O/2$.
2. Short duration test pulse to minimize self-heating effect.

NEW PRODUCT

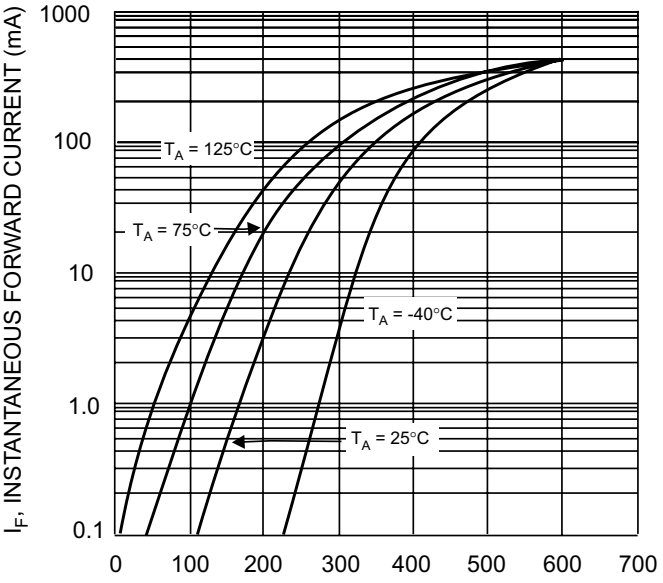


Fig. 1 Typical Forward Characteristics

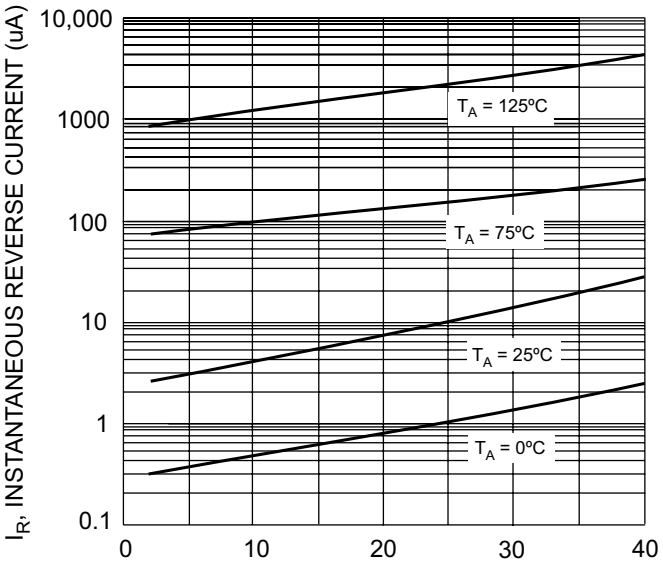


Fig. 2 Typical Reverse Characteristics

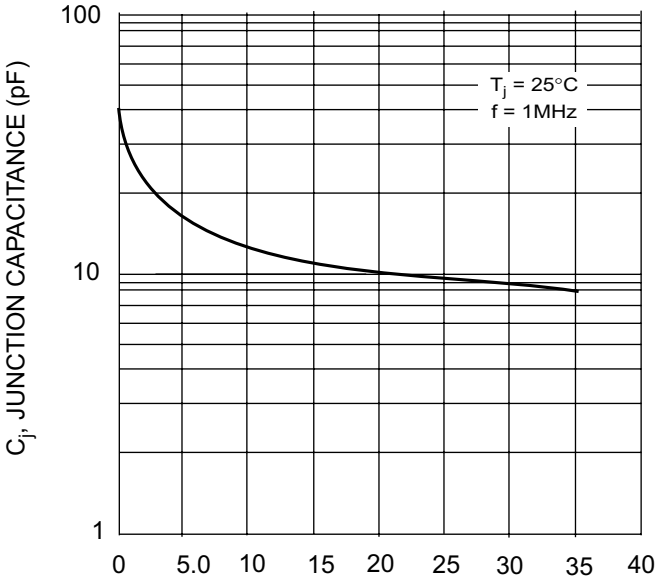


Fig. 3 Typical Junction Capacitance