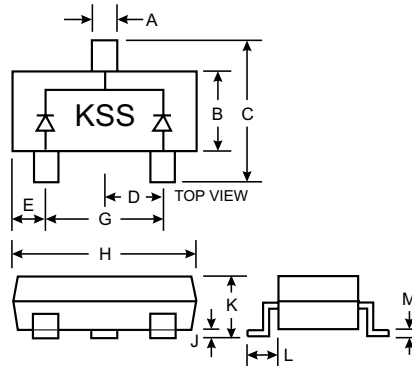


Features

- 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 @ $T_A = 25^\circ\text{C}$ 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 @ $t = 8.3\text{ms}$	I_{FSM}	2	A
Power Dissipation	P_d	400	mW
Operating Temperature Range	T_{OP}	-30 to +85	$^\circ\text{C}$
Junction Temperature Range	T_J	-30 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40 to +125	$^\circ\text{C}$

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

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

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

