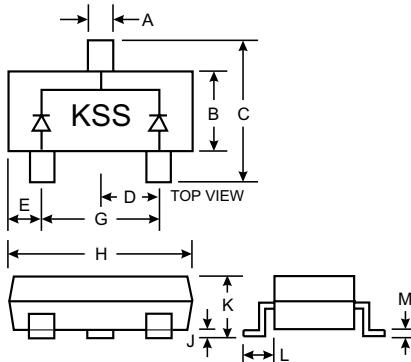


## Features

- 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	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
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	°C
Junction Temperature Range	$T_J$	-30 to +125	°C
Storage Temperature Range	$T_{STG}$	-40 to +125	°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	$\mu\text{A}$	$V_R = 25\text{V}$
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.

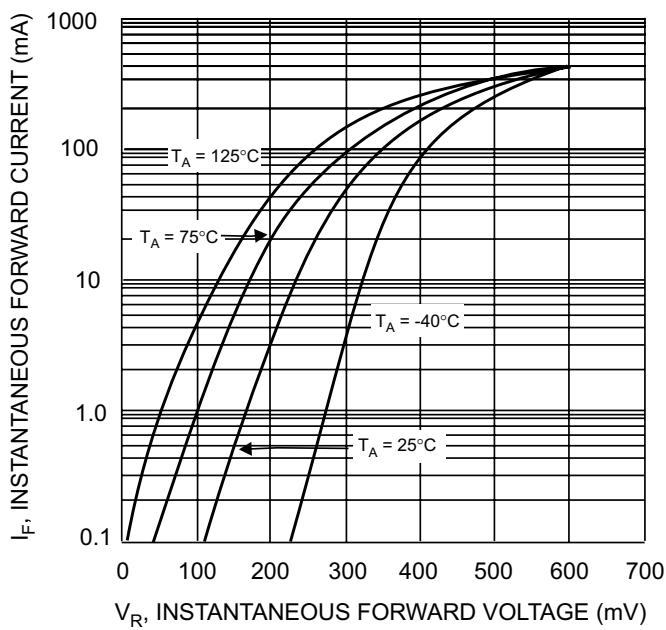


Fig. 1 Typical Forward Characteristics

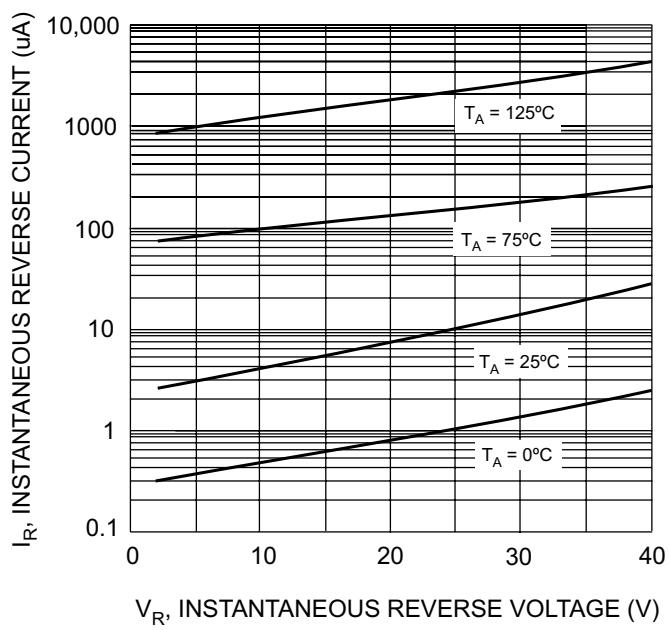


Fig. 2 Typical Reverse Characteristics

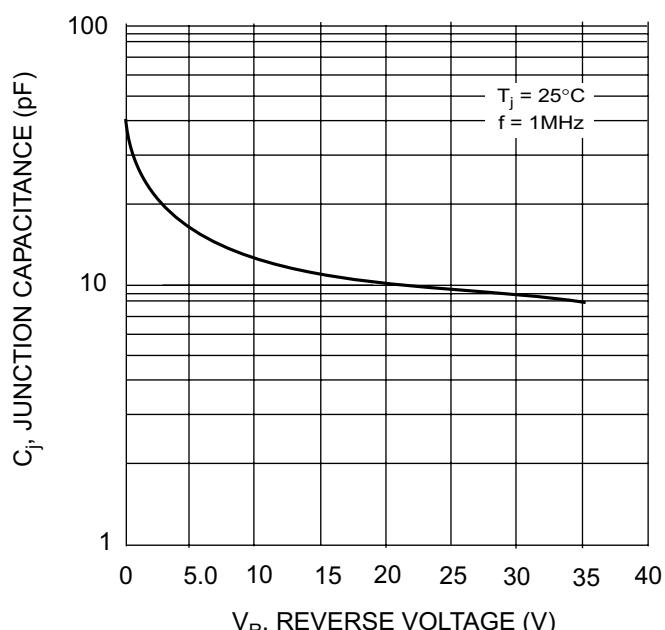


Fig. 3 Typical Junction Capacitance