

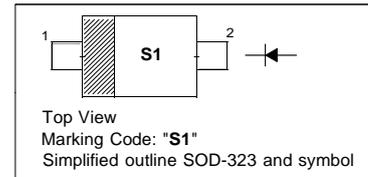
## Schottky Barrier Diode

### Features

- Low forward voltage
- Small plastic SMD SOD-323 package

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Forward Current	$I_F$	350	mA
Peak Forward Surge Current ( $t_p = 10\text{ ms}$ )	$I_{FSM}$	2	A
Thermal Resistance from Junction Ambient	$R_{thJA}$	550	$^\circ\text{C/W}$
Maximum Operating Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 65 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 25\text{ }\mu\text{A}$	$V_{(BR)R}$	40	-	V
Forward Voltage at $I_F = 0.1\text{ mA}$ at $I_F = 1\text{ mA}$ at $I_F = 10\text{ mA}$ at $I_F = 50\text{ mA}$ at $I_F = 200\text{ mA}$ at $I_F = 500\text{ mA}$	$V_F$	- - - - - -	0.25 0.3 0.4 0.5 0.75 0.9	V
Reverse Current at $V_R = 1.5\text{ V}$ at $V_R = 10\text{ V}$ at $V_R = 20\text{ V}$ at $V_R = 40\text{ V}$	$I_R$	- - - -	1 2 5 25	$\mu\text{A}$

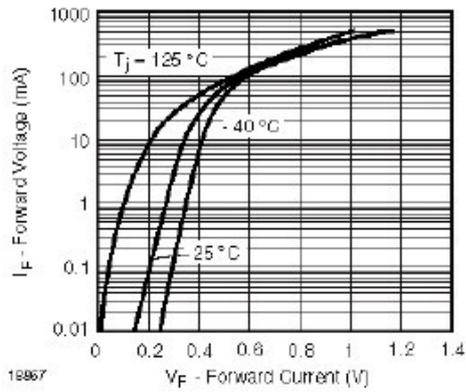


Figure 1. Typical Forward Voltage Forward Current at Various Temperatures

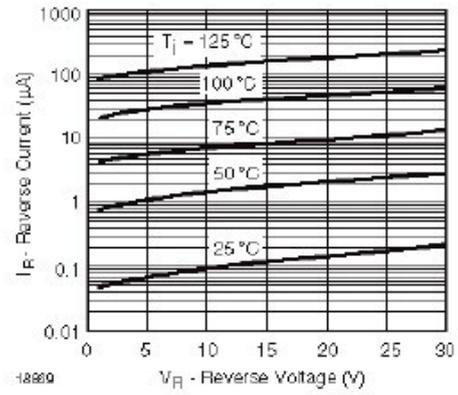


Figure 3. Typical Variation of Reverse Current at Various Temperatures

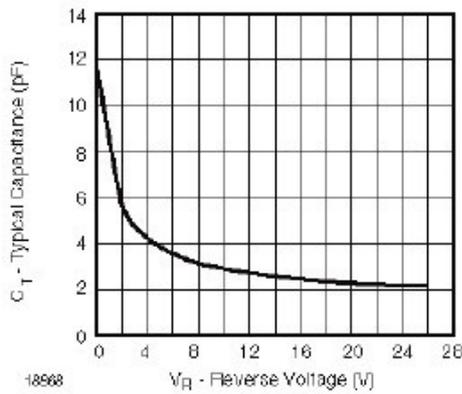


Figure 2. Typical Capacitance  $C_T$  vs. Reverse Applied Voltage  $V_R$