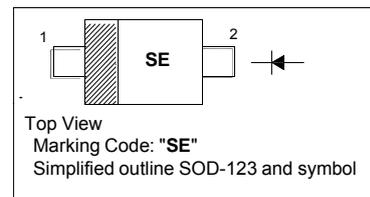


## Surface Mount Schottky Barrier Diode

### 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	$V_{RRM}$	30	V
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	30	V
Maximum DC Blocking Voltage	$V_R$	30	V
Average Forward Rectified Current	$I_{F(AV)}$	0.5	A
Peak Forward Surge Current (8.3 ms Single Half Sine-wave)	$I_{FSM}$	5.5	A
Power dissipation	$P_D$	500	mW
Thermal Resistance Junction to Ambient <sup>1)</sup>	$R_{\theta JA}$	250	$^\circ\text{C/W}$
Operating Junction Temperature	$T_j$	- 40 to + 125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

<sup>1)</sup> 1 inch square pad size (1 X 0.5 inch for each lead) on FR4 board

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$ at $I_F = 500\text{ mA}$	$V_F$	0.375 0.5	V
Reverse Current at $V_R = 30\text{ V}$ at $V_R = 15\text{ V}$	$I_R$	130 20	$\mu\text{A}$

**Typical Characteristics**
