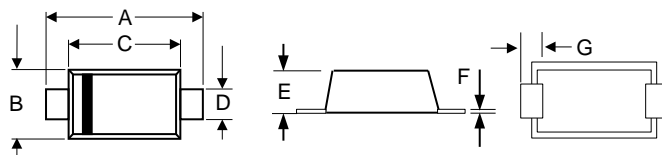


### Features

\* Marking Code: SE



**RoHS**  
COMPLIANT



SOD-123F				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.138	0.154	3.50	3.90
B	0.067	0.075	1.70	1.90
C	0.102	0.114	2.60	2.90
D	0.031	0.043	0.80	1.10
E	0.035	0.043	0.88	1.08
F	0.004	0.008	0.10	0.20
G	0.028	0.035	0.70	0.90

### Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30	V
Non-Repetitive Peak Reverse Voltage	V <sub>RSM</sub>	30	V
Maximum DC Blocking Voltage	V <sub>R</sub>	30	V
Average Forward Rectified Current	I <sub>F(AV)</sub>	0.5	A
Peak Forward Surge Current (8.3 ms Single Half Sine-wave)	I <sub>FSM</sub>	5.5	A
Thermal Resistance Junction to Lead	R <sub>θJL</sub>	150	°C/W
Thermal Resistance Junction to Ambient <sup>1)</sup>	R <sub>θJA</sub>	206	°C/W
Operating Junction Temperature	T <sub>j</sub>	- 65 to + 125	°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 125	°C

Note: 1) 1 inch square pad size (1 X 0.5 inch for each lead) on FR4 board

### Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$ at $I_F = 500\text{ mA}$	$V_F$	0.375 0.43	V
Reverse Current at $V_R = 30\text{ V}$ at $V_R = 15\text{ V}$	$I_R$	130 20	$\mu\text{A}$

### Ratings and Characteristic Curves

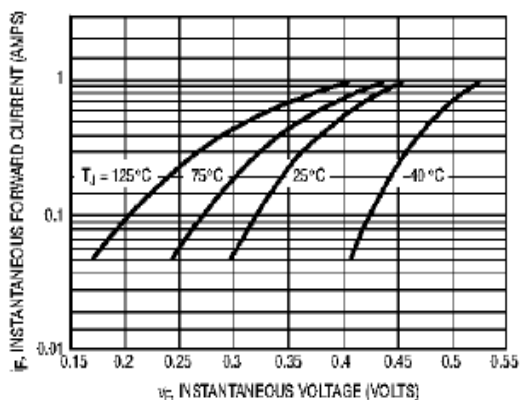


Figure 1. Typical Forward Voltage

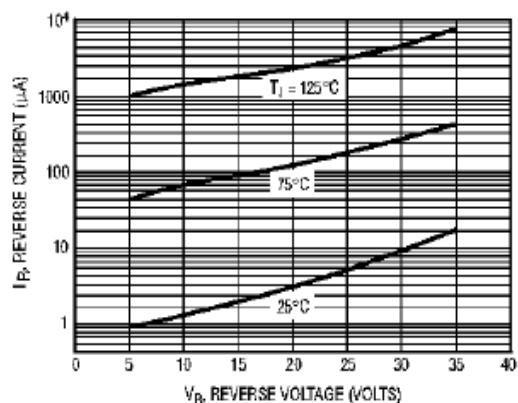


Figure 2. Typical Reverse Current

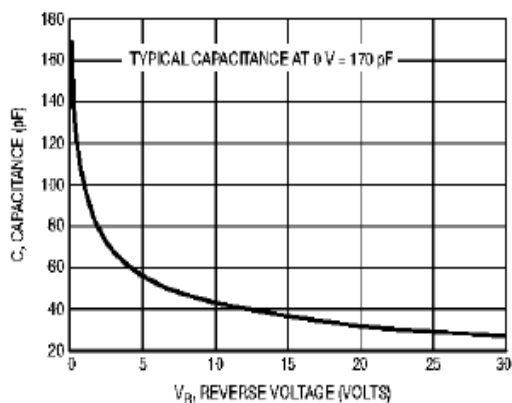


Figure 3. Typical Capacitance



## MBR0530W

### *Surface Mount Schottky Barrier Diode*

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#### Ordering Information

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Part No.	Package	Packing Code	Packing
MBR0530W	SOD-123F	R30	3000pcs/Reel

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