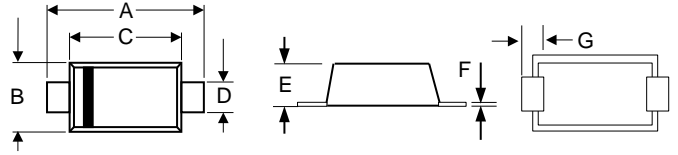


Features

* 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_A=25°C unless otherwise noted)

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
Thermal Resistance Junction to Lead	$R_{\theta JL}$	150	°C/W
Thermal Resistance Junction to Ambient ¹⁾	$R_{\theta JA}$	206	°C/W
Operating Junction Temperature	T_j	- 65 to + 125	°C
Storage Temperature Range	T_{stg}	- 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°C unless otherwise noted)

Parameter	Symbol	Max.	Unit
Forward Voltage at I _F = 100 mA at I _F = 500 mA	V _F	0.375 0.43	V
Reverse Current at V _R = 30 V at V _R = 15 V	I _R	130 20	μA

Ratings and Characteristic Curves

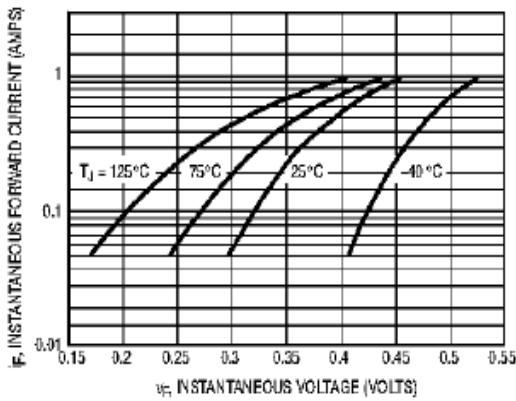


Figure 1. Typical Forward Voltage

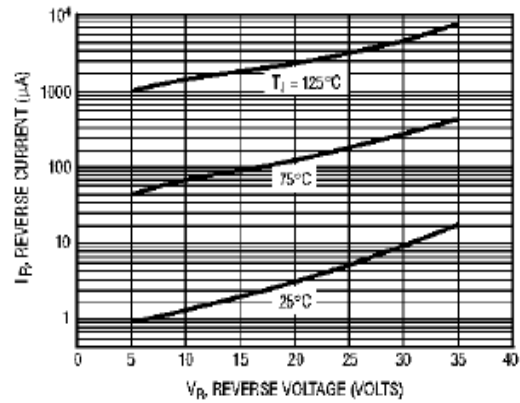


Figure 2. Typical Reverse Current

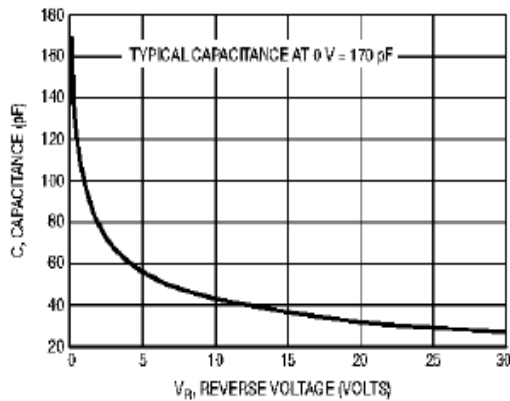


Figure 3. Typical Capacitance



MBR0530W

Surface Mount Schottky Barrier Diode

Ordering Information

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

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