

# **MBRS360T3**

## PRV: 60 Volts lo: 3.0 Amperes

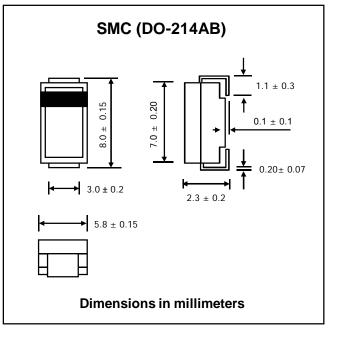
### **FEATURES**:

- \* Small Compact Surface Mountable Package
- \* Highly Stable Oxide Passivated Junction
- \* Excellent Ability to Withstand Reverse Avalanche Energy Transients
- \* Guardring for Stress Protection
- \* Pb / RoHS Free

#### **MECHANICAL DATA:**

- \* Case : SMC Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Lead Formed for Surface Mount
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.21 gram

# SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum Working Peak Reverse Voltage	V <sub>RWM</sub>	60	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	60	V
Maximum Average Rectified Forward Current @ T <sub>L</sub> = 137 °C	I <sub>F(AV)</sub>	3.0	A
Maximum Non-repetitive Peak Surge Current (Surge applied	I <sub>FSM</sub>	125	A
at rated load conditions half wave, single phase ,60 Hz)			
Maximum Instantaneous Forward Voltage (Note 1)	V <sub>F</sub>	0.74	V
( I <sub>F</sub> = 3.0 A, T <sub>J</sub> = 25 °C)			
Maximum Instantaneous Reverse Current (Note1)			
( V <sub>R</sub> = V <sub>RRM</sub> , T <sub>J</sub> = 25 °C)	I <sub>R</sub>	0.15	mA
( V <sub>R</sub> = V <sub>RRM</sub> , T <sub>J</sub> = 100 °C)	I <sub>R(H)</sub>	10.0	
Thermal Resistance Junction to Ambient (Note 2)	R <sub>eja</sub>	164	°C/W
Thermal Resistance Junction to Lead (Note 2)	R <sub>ejl</sub>	11	°C/W
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	- 65 to +175	°C

Notes :

(1) Pulse Test : Pulse Width =  $300 \mu s$  Duty Cycle  $\leq 2\%$ 

(2) Mounted with minimum recommended pad size, PC Board FR4



