

MBRS330T3, MBRS340T3

PRV : 30 - 40 Volts

Io : 3.0 Amperes

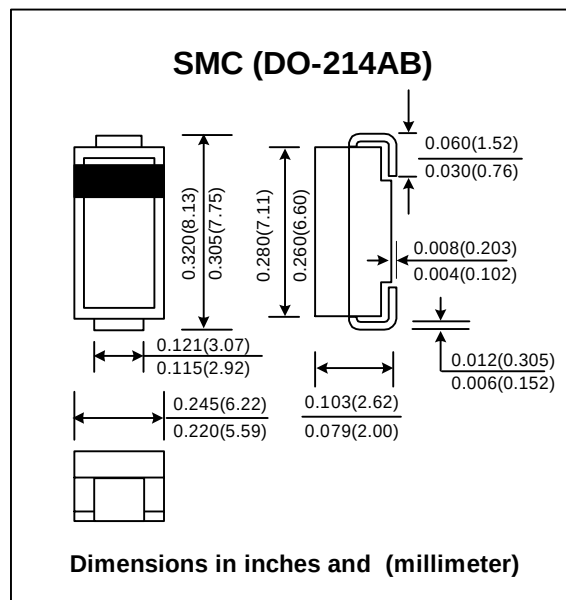
FEATURES :

- * Very Low Forward Voltage Drop
- * 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 RECTIFIERS



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	MBRS330T3	MBRS340T3	UNIT
Maximum Repetitive Reverse Voltage	V _{RRM}	30	40	V
Maximum Working Peak Reverse Voltage	V _{RWM}	30	40	V
Maximum DC Blocking Voltage	V _{DC}	30	40	V
Maximum Average Rectified Forward Current	I _{F(AV)}	3.0 @ T _L = 100°C		A
		4.0 @ T _L = 90°C		
Maximum Non-repetitive Peak Surge Current (Surge applied at rated load conditions half wave, single phase ,60 Hz)	I _{FSM}	80		A
Maximum Instantaneous Forward Voltage (Note 1) (I _F = 3.0 A, T _J = 25°C)	V _F	0.50	0.525	V
Maximum Instantaneous Reverse Current (Note1)	I _R	2.0 (T _J = 25°C)		mA
	I _{R(H)}	20 (T _J = 100°C)		
Thermal Resistance Junction to Lead	R _{θJL}	11		°C/W
Operating Junction Temperature	T _J	- 65 to +125		°C

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

RATING AND CHARACTERISTIC CURVES (MBR340T3, MBR340T3)

FIG.1 - CURRENT DERATING (CASE)

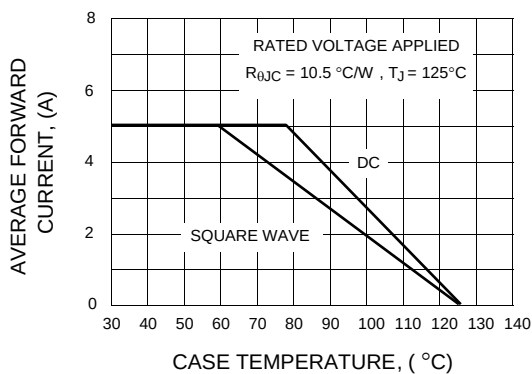


FIG.2 - POWER DISSIPATION

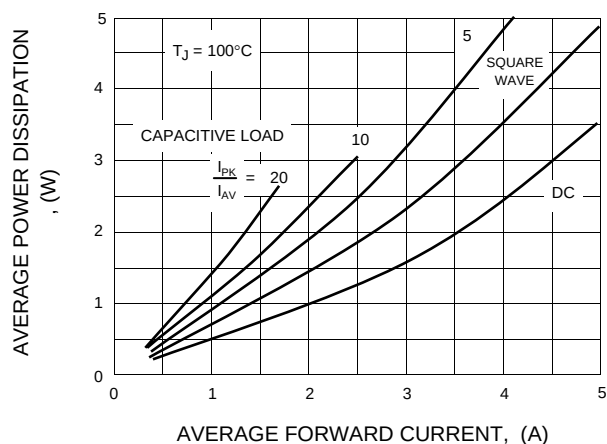


FIG.3 - TYPICAL FORWARD VOLTAGE

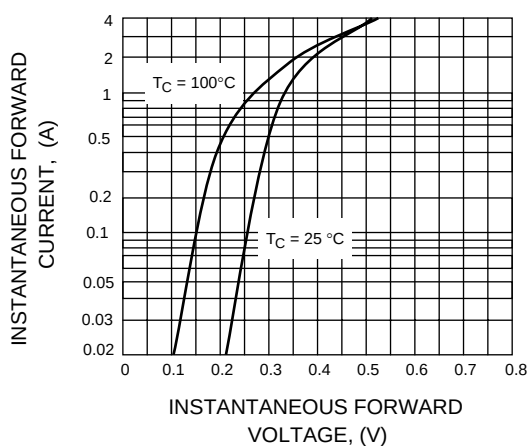


FIG.4 - TYPICAL REVERSE CURRENT

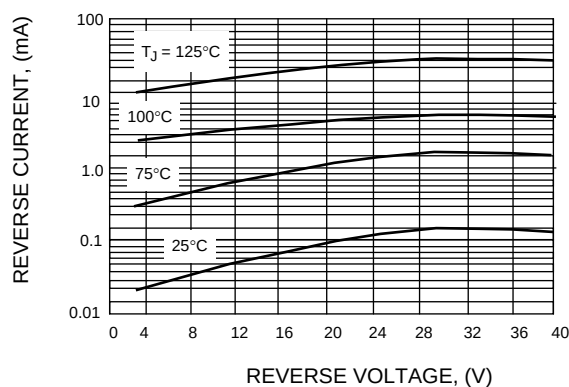


FIG. 5 TYPICAL CAPACITANCE

