

SD3030MR

PRV : 30 Volts
I_o : 30 Amperes

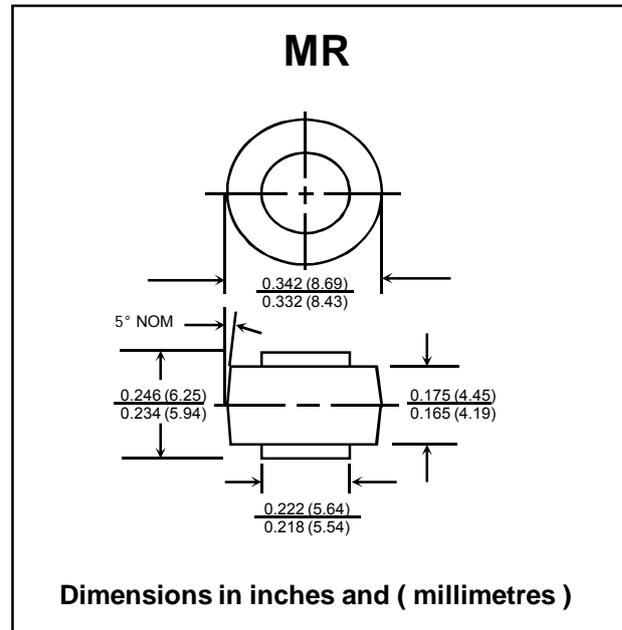
FEATURES :

- * High current capability
- * Low forward voltage drop
- * High surge capacity
- * Low power loss, High efficiency
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Polarity : Cathode polarity band
- * Mounting position : Any
- * Weight : 1.624 grams

SCHOTTKY BARRIER RECTIFIER DIODE



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	V
Maximum Surge Peak Reverse Voltage	V _{RSM}	30	V
Maximum Average Forward Current, at T _a = 70 °C	I _{F(AV)}	30	A
Maximum Peak Forward Surge Current, 50 Hz half sine wave	I _{FSM}	650	A
Maximum Forward Voltage at I _F = 5 A , T _J = 25 °C at I _F = 30 A , T _J = 25 °C	V _F	0.39	V
		0.55	
Maximum Reverse Current at @ (T _J = 25 °C) at V _R = V _{RRM} @ (T _J = 125 °C)	I _R	600	μA
	I _{R(H)}	70	mA
Typical Thermal Resistance Junction to Lead (Note 1)	R _{θJL}	1.0	K/W
Operating Junction Temperature Range (T _J ≤ 200 °C in bypass mode (Note 2))	T _J	- 50 to + 150	°C
Storage Temperature Range	T _{STG}	- 50 to + 175	°C

Notes :

- (1) Thermal resistance from junction to leads/terminal at distance 0 mm from case.
- (2) Max. Junction Temperature T_J ≤ 150 °C (V_R ≤ 80% V_{RRM}) in reverse mode and T_J ≤ 200 °C in bypass mode.

RATING AND CHARACTERISTIC CURVES (SD3030MR)

FIG.1 - FORWARD CURRENT DERATING CURVE

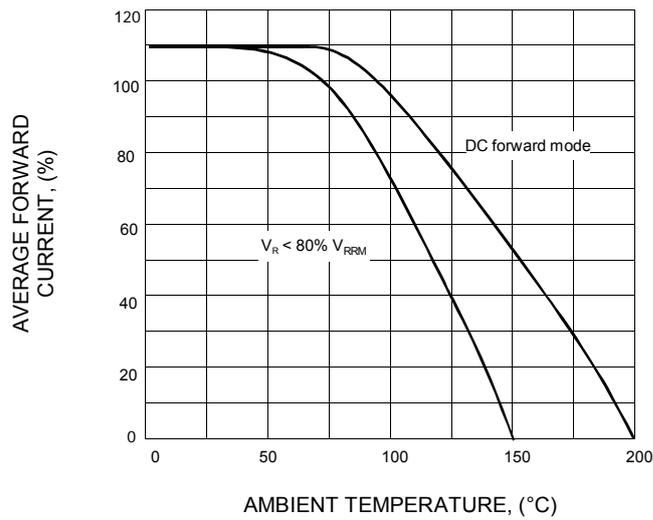


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

