

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 30 - 100 V
CURRENT: 8.0 A

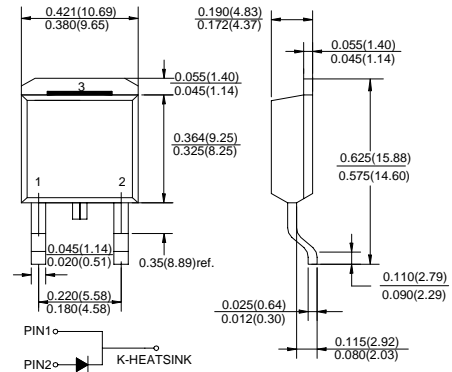
FEATURES

- ◇ High surge capacity.
- ◇ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- ◇ Metal silicon junction, majority carrier conduction.
- ◇ High current capacity, low forward voltage drop.
- ◇ Guard ring for over voltage protection.

MECHANICAL DATA

- ◇ Case: JEDEC D²PAK, molded plastic body
- ◇ Terminals: Leads, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: As marked
- ◇ Position: Any
- ◇ Weight: 0.087 ounces, 2.2 gram

D²PAK



inch(mm)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		MBRB 830	MBRB 835	MBRB 840	MBRB 845	MBRB 850	MBRB 860	MBRB 880	MBRB 8100	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	30	35	40	45	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	21	25	28	32	35	42	56	70	V
Maximum DC blocking voltage	V_{DC}	30	35	40	45	50	60	80	100	V
Maximum average forward total device rectified current @ $T_c = 125^\circ C$	$I_{F(AV)}$	8.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150								A
Maximum forward voltage ($I_F=8.0A, T_c=125^\circ C$) ($I_F=8.0A, T_c=25^\circ C$) (Note 1) ($I_F=16A, T_c=25^\circ C$)	V_F		0.57			0.70		-	0.85	V
Maximum reverse current @ $T_c=25^\circ C$ at rated DC blocking voltage @ $T_c=125^\circ C$	I_R			0.1				0.5		m A
				15				50		
Maximum thermal resistance (Note 2)	$R_{\theta JC}$	3.0								K/W
Operating junction temperature range	T_J	- 55 ---- + 150								°C
Storage temperature range	T_{STG}	- 55 ---- + 150								°C

NOTE: 1. Pulse test: 300µs pulse width, 1% duty cycle.
2. Thermal resistance from junction to case.

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FIG.1 – PEAK FORWARD SURGE CURRENT

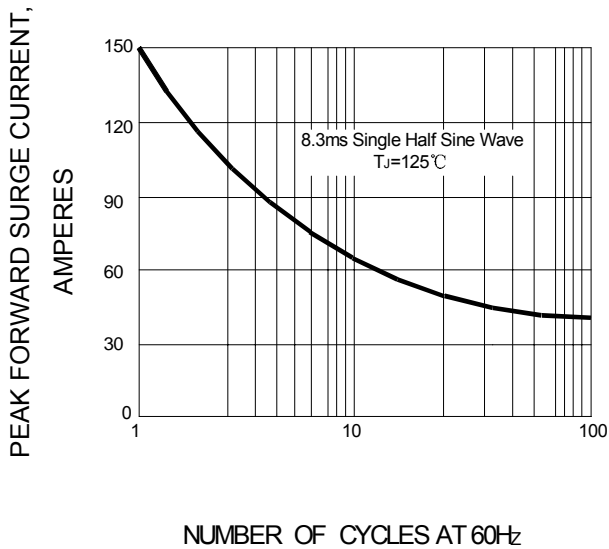


FIG.2 – FORWARD DERATING CURVE

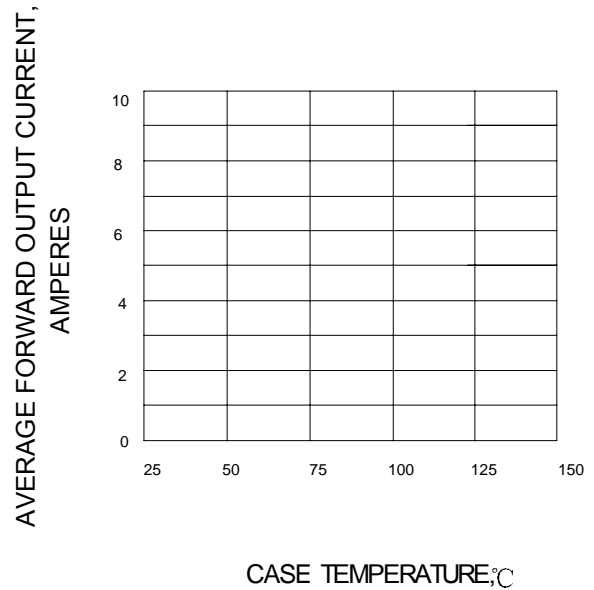


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

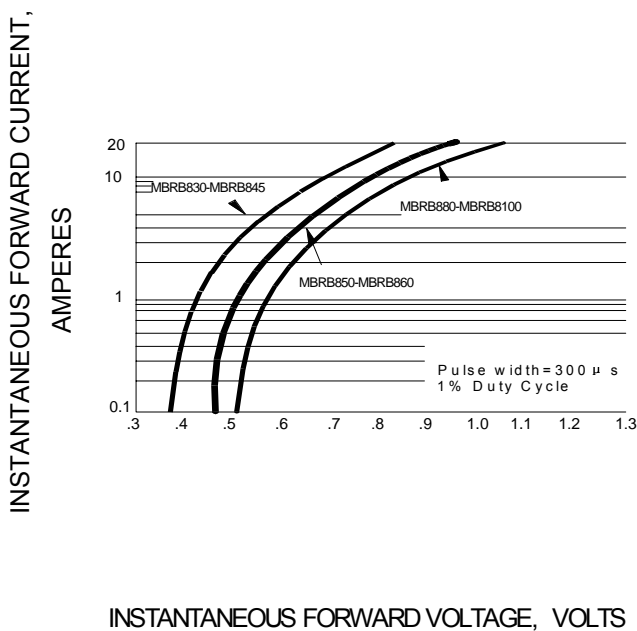


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

