



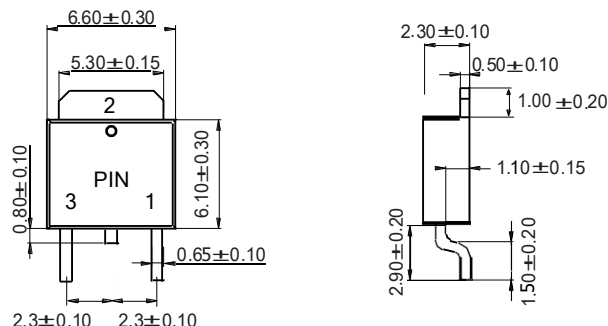
MBRD2020CT THRU MBRD20200CT

20.0Amp Schottky Barrier Rectifiers

TO-252

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
260°C/10 seconds at terminals



Mechanical Data

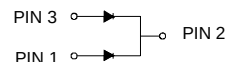
Case : Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750,Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Dimensions in millimeters



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 current derate by 20%.

Parameter	SYMBOLS	MBRD 2020DT	MBRD 2040DT	MBRD 2045DT	MBRD 2060DT	MBRD 20100DT	MBRD 20150DT	MBRD 20200DT	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	45	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	31.5	42	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	40	45	60	100	150	200	V
Maximum average forward rectified current (see fig.1)	I _(AV)	20.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150.0							A
Maximum instantaneous forward voltage per diode at 10.0A	V _F	0.70			0.80	0.85	0.92		V
Maximum DC reverse current at rated DC blocking voltage T _A =25°C T _A =100°C	I _R	0.5 50				0.05 10			mA
Typical thermal resistance	R _{qJA}	45.0							°C/W
Operating junction temperature range	T _J	-55 to +150							°C
Storage temperature range	T _{STG}	-55 to +125				-55 to +150			°C

Ratings And Characteristic Curves
MBRD2020CT THRU MBRD20200CT

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

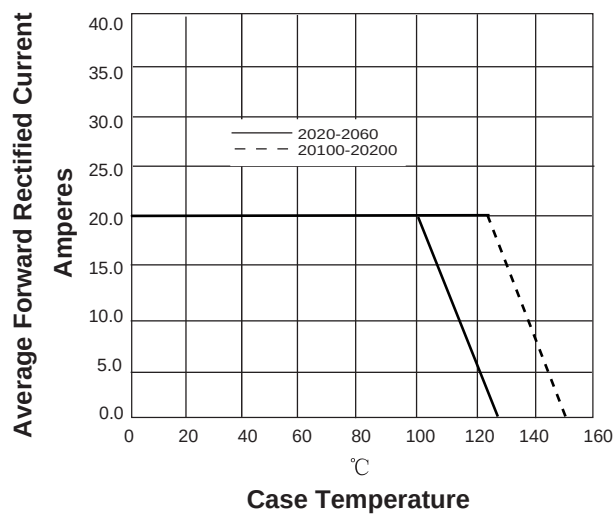


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

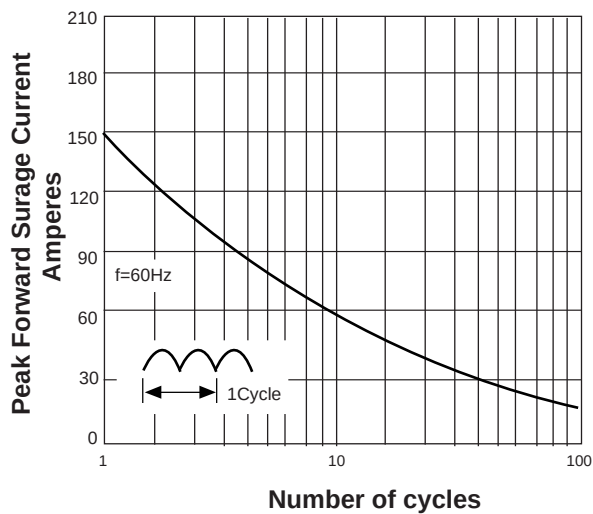


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

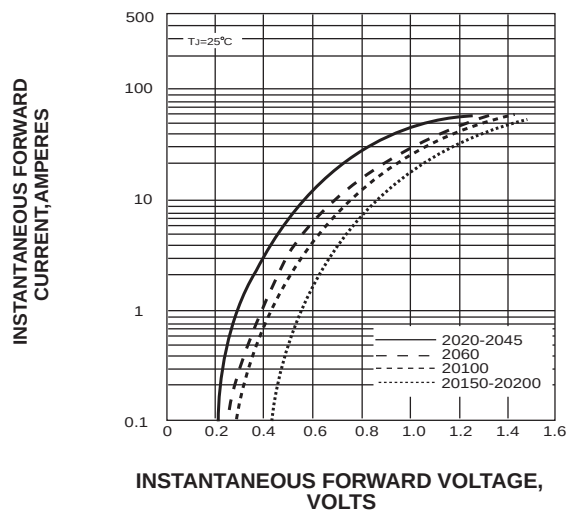


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

