

MBR20200CT

PRV : 200 Volts
I_o : 20 Amperes

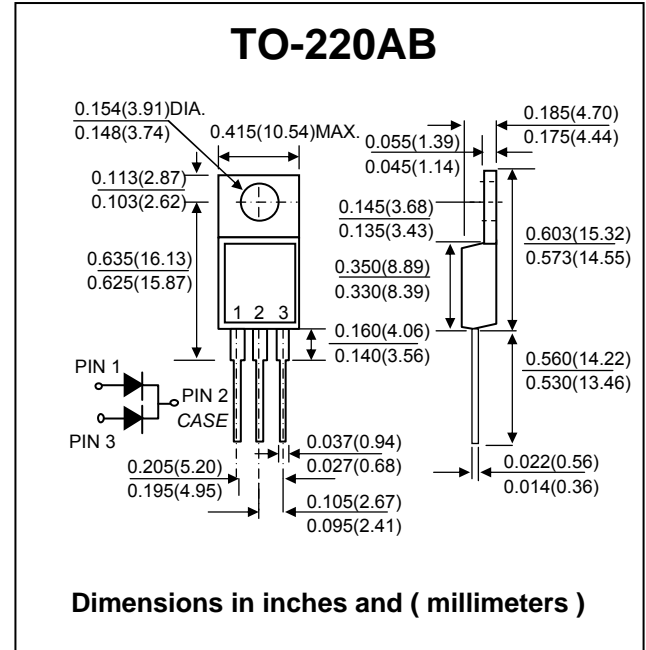
FEATURES :

- * 200 V Blocking Voltage
- * Low Forward Voltage Drop
- * Guard-ring for Stress Protection
- * Dual Diode Construction; Terminals 1 and 3 Must be Connected for Parallel Operation at Full Rating
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : JEDEC TO-220AB molded plastic body
- * Terminals: Plated leads, solderable per MIL-STD-750 Method 2026
- * Polarity: As marked
- * Mounting Position: Any
- * Weight : 2.24 grams (Approximately)

DUAL SCHOTTKY BARRIER RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_c = 25 °C unless otherwise noted)

RATINGS	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	V
Maximum RMS Voltage	V _{RMS}	200	V
Maximum DC Blocking Voltage	V _{DC}	200	V
Maximum Average Forward Current (Rated V _R , T _C = 125 °C)	I _{F(AV)}	10	A
<i>Per Leg</i> <i>Per Package</i>		20	
Peak Repetitive Forward Current per Leg (Rated V _R , Square Wave, 20 kHz, T _c = 90 °C)	I _{FRM}	20	A
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)	I _{FSM}	150	A
Maximum Instantaneous Forward Voltage per leg (Note 1) at I _F = 10 A, T _C = 25 °C	V _F	0.9	V
at I _F = 10 A, T _C = 125 °C		0.8	
at I _F = 20 A, T _C = 25 °C		1.0	
at I _F = 20 A, T _C = 125 °C		0.9	
Maximum Reverse Current at Rated DC Blocking Voltage per leg (Note 1)	I _R	1.0	mA
<i>T_C = 25 °C</i> <i>T_C = 125 °C</i>	I _{R(H)}	50	
Capacitance (V _R = -5.0 V, T _C = 25 °C, f = 1.0 MHz)	C _T	500	pF
Typical Thermal Resistance from Junction to Case Per leg	R _{θJC}	2.0	°C/W
Operating Temperature Range	T _J	- 65 to + 150	°C
Storage Temperature Range	T _{STG}	- 65 to + 175	°C

Note : (1) Pulse test : 300 μs pluse width, 1% duty cycle

RATING AND CHARACTERISTIC CURVES (MBR20200CT)

FIG.1 - CURRENT DERATING CURVE

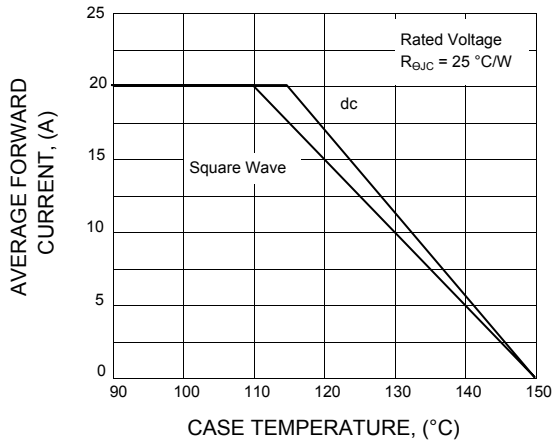


FIG.2 - TYPICAL CAPACITANCE(PER LEG)

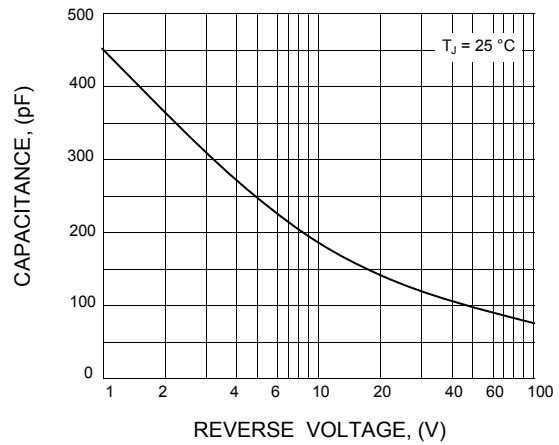


FIG.3 - TYPICAL INSTANTANEOUS FORWARD

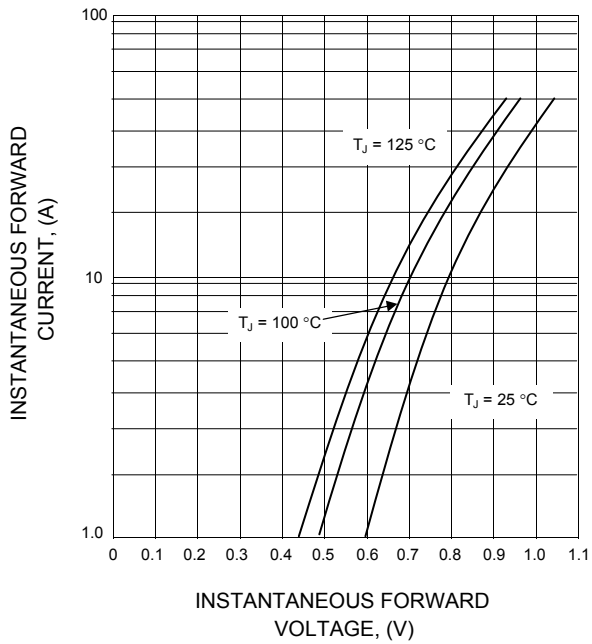


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

