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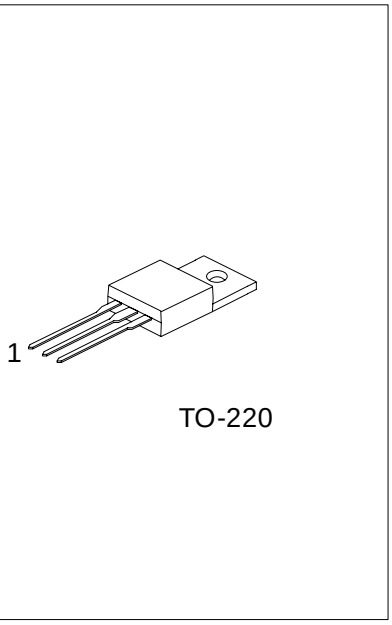
MBR20100C

DIODE

SCHOTTKY BARRIER RECTIFIER

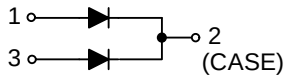


*Pb-free plating product number: MBR20100CL

■ FEATURES

* 20 amps total (10 amps per diode leg)
* Guard ring for transient protection
* Low forward voltage drop
* High surge capability
* Low power loss/High efficiency

■ SYMBOL



■ ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
MBR20100C-TA3-T	MBR20100CL-TA3-T	TO-220	A	K	A	Tube

Note: Pin Assignment: A: Anode K: Cathode

MBR20100CL-TA3-T (1)Packing Type (2)Package Type (3)Lead Plating	(1) T: Tube (2) TA3: TO-220, (3) L: Lead Free Plating Blank: Pb/Sn

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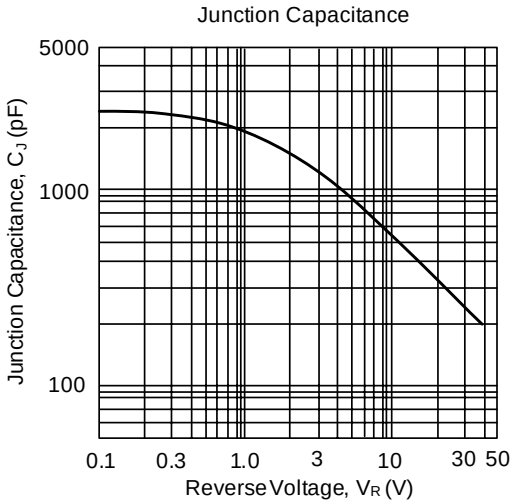
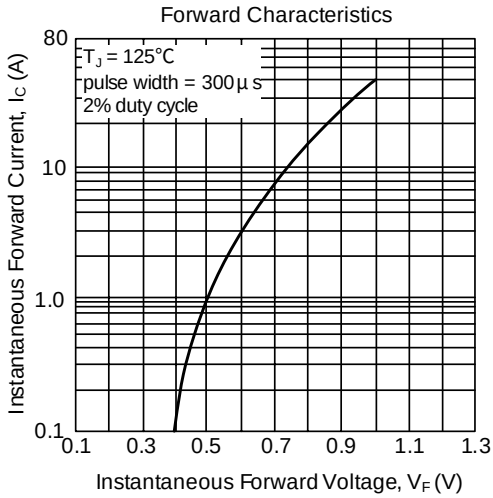
■ ELECTRICAL CHARACTERISTICS (Ta=25℃, unless otherwise specified)

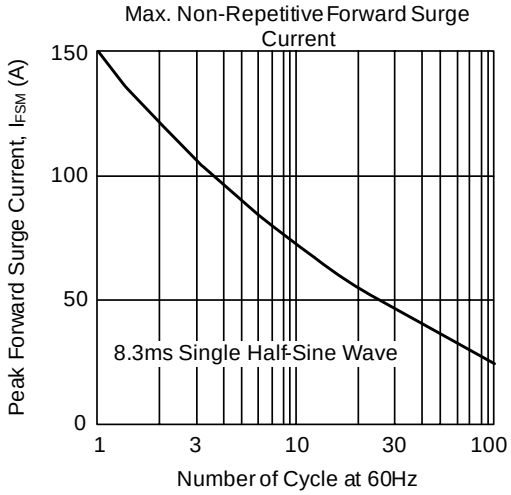
PARAMETER			SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage			V_{RRM}	100	V
Maximum DC Blocking Voltage			V_R	100	V
Working Peak Reverse Voltage			V_{RWM}	100	V
Maximum PMS Reverse Voltage			$V_{R(RMS)}$	70	V
Average Forward Rectified Output Current	Per Leg		I_{OUT}	10	A
	Total Device			20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave			I_{FSM}	150	A
Forward Voltage	T_C=25℃	I_F=10A,	V_F	0.85	V
		I_F=20A,		0.95	V
	T_C=125℃	I_F=10A,		0.75	V
		I_F=20A,		0.85	V
Maximum DC Reverse Current	T_C=25℃		I_R	0.15	mA
	T_C=125℃			150	mA
Junction Capacitance (Note 1)			C_J	1000	pF
Operating Temperature			T_J	-55 ~ +150	℃
Storage Temperature			T_{STG}	-55 ~ +150	℃

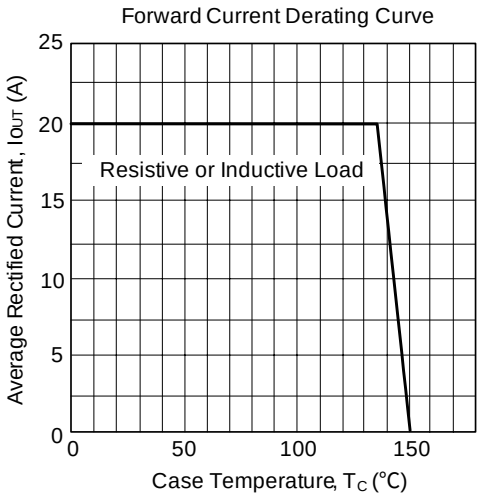
Notes.1: Applied V_R = 4.0V and f = 1.0MHz.

■ TYPICAL CHARACTERISTICS









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