



## MBR20100C

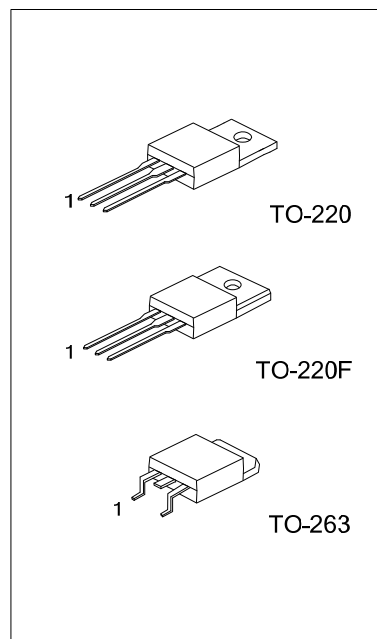
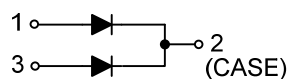
DIODE

### SCHOTTKY BARRIER RECTIFIER

#### 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

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
MBR20100CL-TA3-T	MBR20100CG-TA3-T	TO-220	A	K	A	Tube
MBR20100CL-TF3-T	MBR20100CG-TF3-T	TO-220F	A	K	A	Tube
MBR20100CL-TQ2-R	MBR20100CG-TQ2-R	TO-263	A	K	A	Tape Reel
MBR20100CL-TQ2-T	MBR20100CG-TQ2-T	TO-263	A	K	A	Tube

Note: Pin Assignment: A: Anode K: Cathode

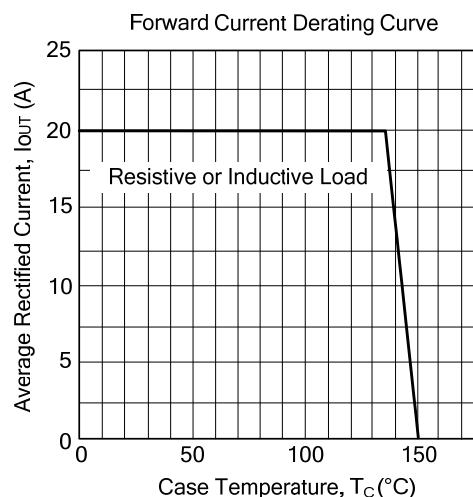
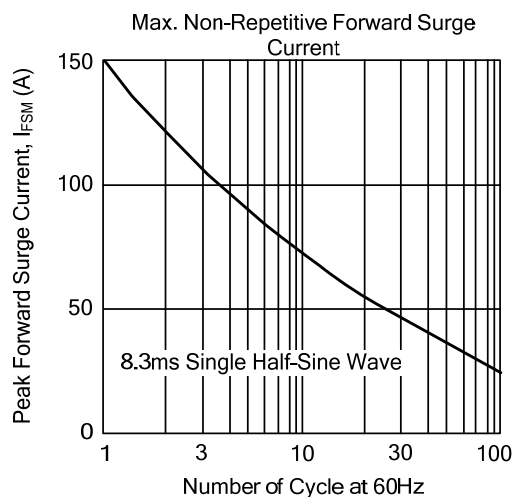
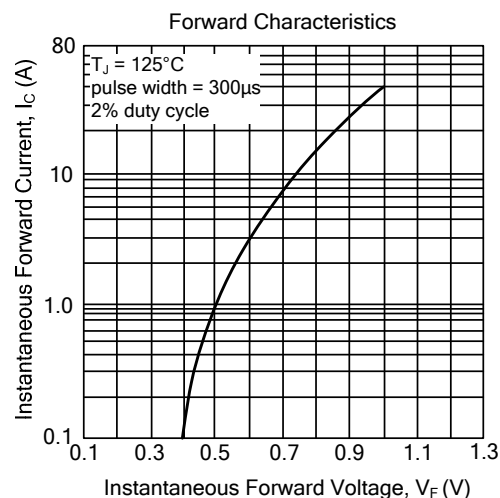
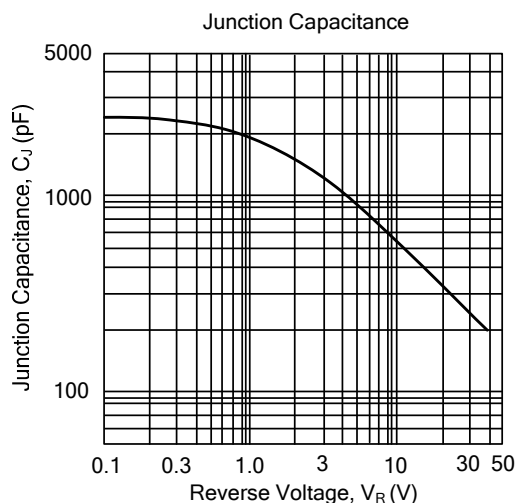
MBR20100CL-TA3-T	(1)Packing Type (2)Package Type (3)Lead Free	(1) T: Tube, R: Tape Reel (2) TA3: TO-220, TF3, TO-220F, TQ2: TO-263 (3) G:Halogen Free, L: Lead Free
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■ ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C, unless otherwise specified)

PARAMETER			SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage			V <sub>RRM</sub>	100	V
Maximum DC Blocking Voltage			V <sub>R</sub>	100	V
Working Peak Reverse Voltage			V <sub>RWM</sub>	100	V
Maximum PMS Reverse Voltage			V <sub>R(RMS)</sub>	70	V
Average Forward Rectified Output Current	Per Leg	I <sub>OUT</sub>	10	A	
	Total Device		20	A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave			I <sub>FSM</sub>	150	A
Forward Voltage	T <sub>C</sub> =25°C	I <sub>F</sub> =10A	V <sub>F</sub>	0.85	V
		I <sub>F</sub> =20A		0.95	V
	T <sub>C</sub> =125°C	I <sub>F</sub> =10A		0.75	V
		I <sub>F</sub> =20A		0.85	V
Maximum DC Reverse Current	T <sub>C</sub> =25°C	I <sub>R</sub>	0.15	mA	
	T <sub>C</sub> =125°C		150	mA	
Junction Capacitance (Note 1)			C <sub>J</sub>	1000	pF
Operating Temperature			T <sub>J</sub>	-55 ~ +150	°C
Storage Temperature			T <sub>STG</sub>	-55 ~ +150	°C

Notes.1: Applied V<sub>R</sub> = 4.0V and f = 1.0MHz.

## ■ TYPICAL CHARACTERISTICS



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