

LITE-ON SEMICONDUCTOR

MBRF20200CT(LS)

REVERSE VOLTAGE - 200 Volts SCHOTTKY BARRIER RECTIFIER **FORWARD CURRENT - 20 Amperes FEATURES ITO-220AB** · Metal of silicon rectifier, majority carrier conduction · Guard ring for transient protection ITO-220AB · Low power loss, high efficiency MIN DIM MAX · Low leakage current 15.50 16.50 Α ⊕ High current capability, low VF в 10.00 10.40 С 3.00 3.50 · High surge capacity D 9.00 9.30 · Plastic package has UL flammability classification Ε 2.90 3.60 94V-0 PIN F 13.46 14.22 2 · Lead-Free Finish; RoHS Compliant (Notes 1 & 2) 1.70 G 1.15 • Halogen and Antimony Free. "Green" Device (Note 3) Н 2.40 2.70 1.00 L 0.75 0.70 J 0.45 κ 3.00 3.30 **MECHANICAL DATA** 4.77 4.36 L Case: ITO-220AB molded plastic М 2.48 2.80 Ν 2.50 2.80 · Polarity: AS marked on the body All dimension in millimeter · Weight: 0.06 ounces, 1.70 grams Mounting position : Any PIN 1 PIN 2 PIN 3 🖬

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MBRF20200CT	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC Blocking Voltage	VDC	200	V
Maximum Average Forward Rectified Current (See Fig.1) TC =120 °C	I(AV)	10 20	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	IFSM	180	А
Voltage Rate of Change (Rated VR)	dv/dt	10000	V/us
	VF	0.92 0.75 1.00 0.86	V
Maximum DC Reverse Current $@TJ = 25 °C$ at Rated DC Blocking Voltage $@TJ = 125 °C$	IR	8 5	uA mA
Typical Thermal Resistance (Note 5)	Rejc	2.5	°C/W
Typical Junction Capacitance per element (Note 6)	CJ	250	pF
Operating Junction and Storage Temperature Range	Tj, Tstg	-65 to +175	°C
Dielectric Strengh from terminals to case, AC with t=1 minute, RH<30%	Vdis	2000	V
lote :		REV. 3, Se	ep-2021, KTHC32

Note :

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free. 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm

antimony compounds.

4. 300us pulse width, 2% duty cycle.

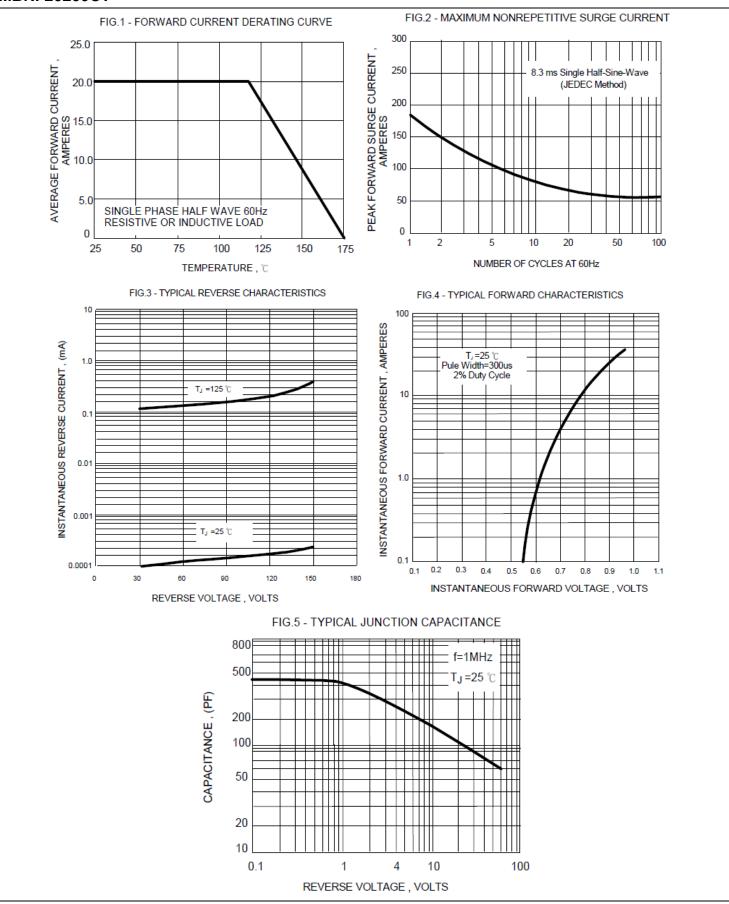
5. Device mounted on 226 x114 x 8mm Aluminum plate.

6. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



A Product Line of Diodes Incorporated

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Ordering Information :

Part Number MBRF20200CT-LS		Case	Packaging 50 Pieces/Tube
		ITO-220AB	
arking Information : $LOGO \longrightarrow$ Terminal sign \longrightarrow	MBRF202	X = A.B.V.K.C WW = Week C	Manufacturer's Internal Code Green Compound



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