

MBRF30L120CT

406(10.3) MAX 374(9.6) 134(3.4) DIA 113(3.0) DIA

(T)

125(3.2) 936(2.4)

ITO-220AB

.272(6.9)

Isolated 30.0 AMPS. Low V_F Schottky Barrier Rectifiers

.121(3.1)

SGYWW BRF30LXXX

HHF

G Y

ww

185(4.7)

RoHS COMPLIANCE

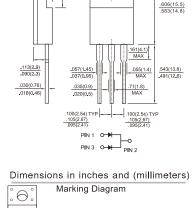


Features

- ∻ Low power loss, high efficiency
- ∻ High current capability, Low forward voltage drop.
- Plastic material used carries Underwriters ∻
- Laboratory Classification 94V-0
- ∻ High surge current capabilitry
- ∻ Qualified as per AEC-Q101 ∻
- Guard-ring for transient protection ∻
- For use in low voltage, high frequency inventor, freewheeling, and polarity protection application ♦ High temperature soldering guaranteed:
- $260^{\circ}C/10S/.375"(9.5mm)$ lead lengths 5 lbs tension Green compound with suffix "G" on packing code ∻
- & prefix "G" on datecode

Mechanical Data

- ♦ Case: ITO-220AB
- ♦ Terminals: Pure tin plated leads, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: As marked
- ♦ Weight: 1.72 grams
- ∻ Mounting Torque:5 in-lbs. max.
- ∻ Mounting position:Any



MBRF30LXXXCT = Specific Device Code

Green Compound

YearWork Week

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Maximum Ratings and Electrical Characteristics

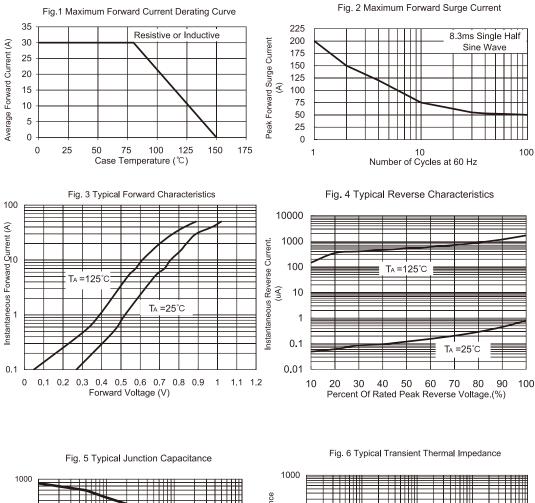
Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	MBRF30L120CT		Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	120		V
Maximum RMS Voltage	V _{RMS}	84		V
Maximum DC blocking voltage	V _{DC}	120		V
Maximum Average Forward Rectified Current	I _{F(AV)}	30		А
Peak Repetitive Forward Current (Rated VR, Square Wave, 20KHz)	I _{F(RMS)}	30		А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	I _{FSM}	200		А
Peak Repetitive Reverse Surge Current (Note 2)	I _{RRM}	1		А
Maximum Instantaneous Forward Voltage @ 15A / T _A =25°C @ 15A / T _A =125°C @ 30A / T _A =25°C @ 30A / T _A =125°C	V _F	TYP. 0.81 0.66 0.89 0.76	Max. 0.88 0.75 0.95 0.82	v
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 1) @T₄=25℃ @T₄=125℃	I _R	TYP 1 1 1 7	Max. 20.0 25.0	uA mA
Voltage rate of change (rated V_R)	dV/dt	10,000		V/uS
Typical Junction Capacitance (Note 3)	Cj	360		pF
Typical Thermal Resistance (Note 4)	R _{θJC}	5.0		°C/W
Operating Temperature Range	TJ	-55 to + 150		°C
Storage Temperature Range	T _{STG}	-55 to + 150		°C

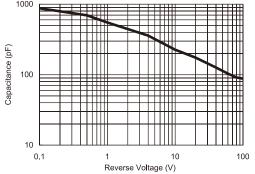
Note: 1. Pulse Test with PW=300 usec,1% Duty Cycle 2. 2.0uS Pulse Width, F=1.0KHz, Continues 10 cycles 3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C. 4. Mount on Heatsink Size of 4" x 6" x 0.25" Al-Plate

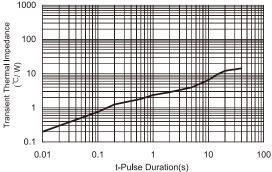
Version: B10





RATINGS AND CHARACTERISTIC CURVES (MBRF30L120CT)





Version: B10