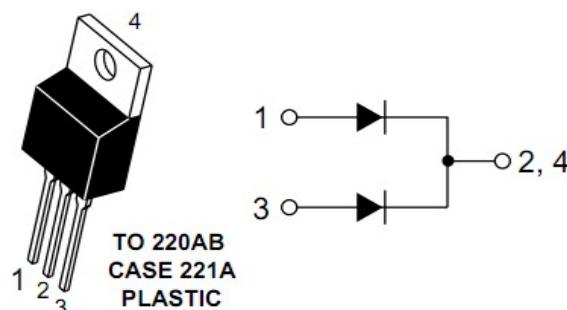
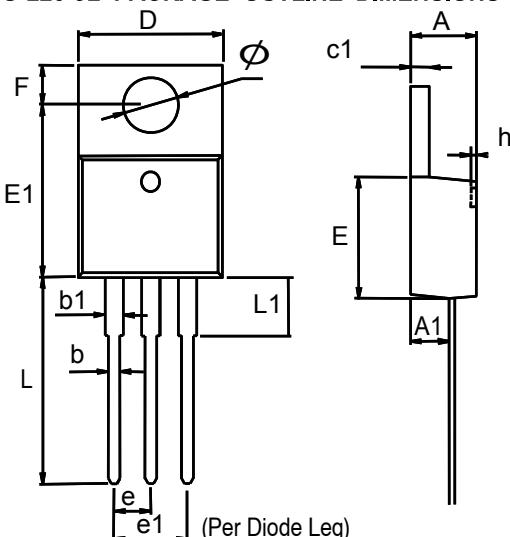


Features

- Schottky Barrier Diodes
- 40A Total (20A Per Diode Leg)
- Guard Ring for Stress Protection
- Low Forward Voltage
- 175°C Operating Junction Temperature
- Epoxy Meets UL 94 V 0 @ 0.125 in
- Low Power Loss/High Efficiency
- High Surge Capacity
- Low Stored Charge Majority Carrier Conduction
- Pb Free Packages are Available*

Mechanical Characteristics:

- Case: Epoxy, Molded
- Weight: 2.26 grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds

TO-220-3L PACKAGE OUTLINE DIMENSIONS


Symbol	Dimensions In Millimeters	
	Min.	Max.
A	4.470	4.670
A1	2.520	2.820
b	0.710	0.910
b1	1.170	1.370
c	0.310	0.530
c1	1.170	1.370
D	10.010	10.310
E	8.500	8.900
E1	12.060	12.460
e	2.540 TYP.	
e1	4.980	5.180
F	2.590	2.890
h	0.000	0.300
L	13.400	13.800
L1	3.560	3.960
Ø	3.735	3.935

RATINGS

Rating	Symbol	MBR40150CT	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	150	V
Average Rectified Forward Current (Rated V _R) T _C = 133°C	I _{F(AV)}	20	A
Peak Repetitive Forward Current (Rated V _R , Square Wave, 20 kHz) T _C = 133°C	I _{FRM}	40	A
Maximum Instantaneous Forward Voltage (I _F = 20Amps, T _C = 25°C)	V _F	0.90	V
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60Hz)	I _{FSM}	400	A
Peak Repetitive Reverse Surge Current (2.0 µs, 1.0 kHz)	I _{RRM}	5	A
Operating Junction Temperature	T _J	- 65 to +175	°C
Voltage Rate of Change (Rated V _R)	dv/dt	10,000	V/µs
Maximum Instantaneous Reverse Current (Rated dc Voltage, T _C = 125°C) (Rated dc Voltage, T _C = 25°C)	I _R	6.0 0.05	mA

Rating and Characteristic Curves

Fig.1 Typical Forward Voltage Per Diode

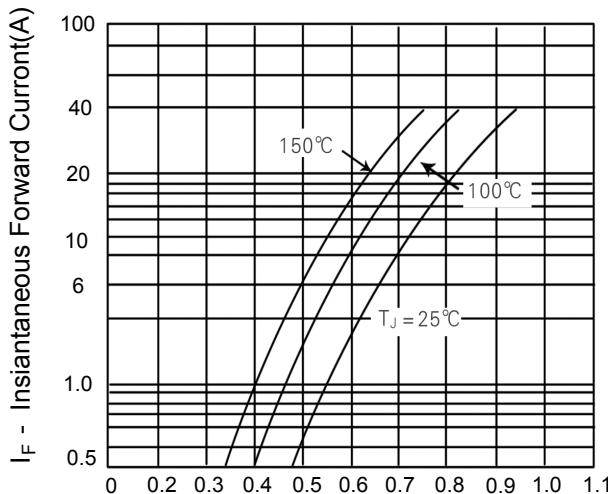


Fig.2 Typical Reverse Current Per Diode

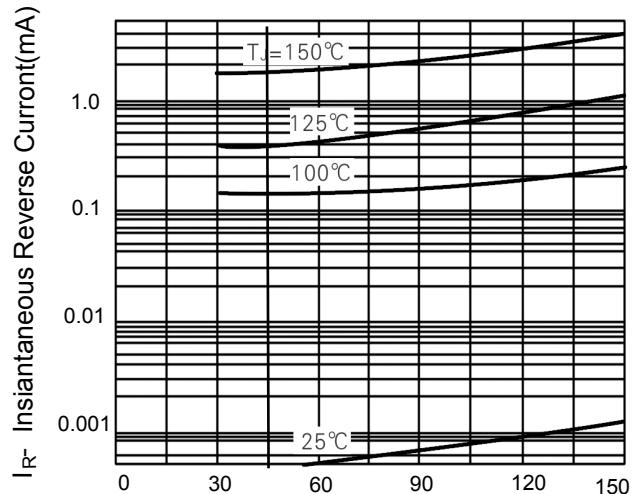


Fig.3 Forward Current Derating Curve

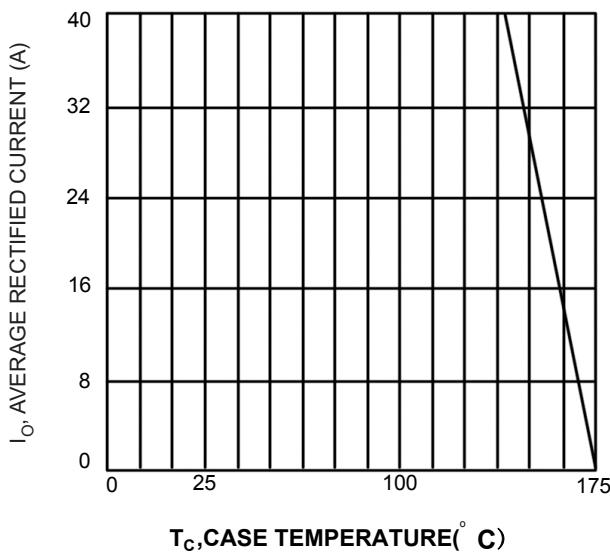
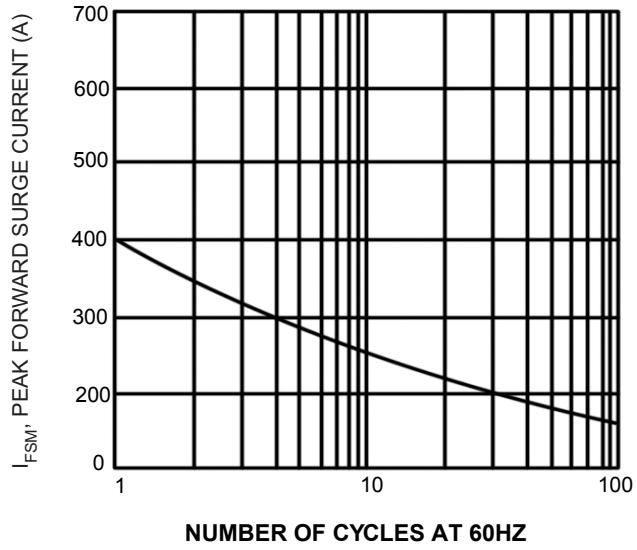


Fig.4 Max Non- Repetitive Surge Current



The curve above is for reference only.