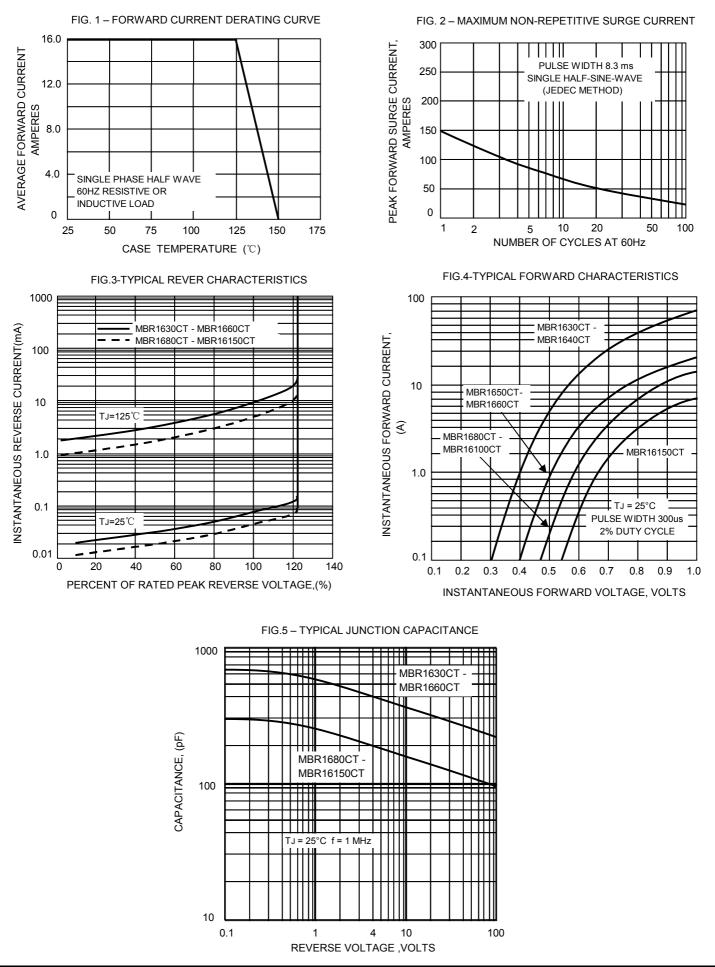


MBR1630CT thru MBR16150CT

REVERSE VOLTAGE - 30 to 150Volts SCHOTTKY BARRIER RECTIFIERS FORWARD CURRENT - 16.0 Amperes **TO-220AB FEATURES** .187(4.7) Metal of silicon rectifier , majority carrier conduction .108 .148(3.8) .153(3.9) .413(10.5) (2.75).146(3.7) .055(1.4) Guard ring for transient protection .374(9.5) .047(1.2) Low power loss, high efficiency High current capability, low VF .270(6.9) 230(5.8) High surge capacity I Plastic package has UL flammability .610(15.5) .583(14.8) classification 94V-0 For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications .157 **MECHANICAL DATA** .583(14.8) .051 (4.0) .531(13.5) (1.3)•Case: TO-220AB molded plastic .043(1.1) Polarity: As marked on the body .032(0.8) •Weight: 0.08ounces,2.24 grams .024(0.6) .102(2.6) Mounting position :Any .012(0.3) .091(2.3) .126 (3.2)Dimensions in inches and (millimeters) MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20% MBR MBR MBR MBR MBR MBR MBR SYMBOL UNIT **CHARACTERISTICS** 16300 16400 16500 1660C 1680C 61000 161500 Maximum Recurrent Peak Reverse Voltage VRRM 30 60 80 150 V 40 50 100 Maximum RMS Voltage VRMS 21 28 35 42 56 70 105 V Maximum DC Blocking Voltage VDC 30 40 50 60 80 100 150 v Maximum Average Forward 16.0 A (AV) Rectified Current (See Fig.1) Peak Forward Surge Current 8.3ms Single Half Sine-Wave IFSM 150 A Super Imposed on Rated Load (JEDEC Method) Peak Forward IF=8A @TJ=25℃ 0.84 0.75 0.85 1.05 IF=8A @TJ=125°C 0.57 0.65 0.75 Voltage (Note1) 0.92 VF V 0.72 0.95 IF=16A @TJ=25°C 0.85 IF=16A @TJ=125°C Maximum DC Reverse Current 0.1 03 @TJ=25°C IR mΑ at Rated DC Bolcking Voltage @TJ=125°C 10 5.0 CJ 400 200 Typical Junction Capacitance (Note2) pF 3.0 Typical Thermal Resistance (Note3) Rejc °C/W Operating Temperature Range ΤJ -55 to +150 °C Storage Temperature Range -55 to +175 °C Tstg NOTES:1.300us pulse width,2% duty cycle. 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to case.



 $[\]sim 261 \sim$