MBR40045CT(R)L

LOW VF SCHOTTKY DIODE MODULE TYPE 400A / 45V

Features

High Surge Capability
Type 45V VRRM

Maximum Ratings

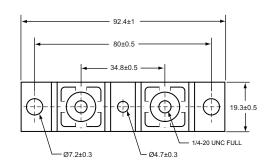
Junction Operating Temperature : -40°C to +100°C

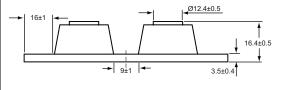
Storage Temperature : -40°C to +150°C

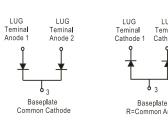
| Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|----------------|---|------------------------|-----------------------------------|
| MBR40045CT(R)L | 45V | 32V | 45V |

TWIN TOWER

Dimensions in mm (1 mm = 0.0394")







Electrical Characteristics @ 25 $^{\circ}$ C Unless Otherwise Specified

| <u>- </u> | | | |
|--|--------|--|---|
| Average Forward Current (Per pkg) | IF(AV) | 400A | Tc = 100°C |
| Peak Forward Surge Current (Per diode) | İFSM | 3000A | 8.3ms , half sine |
| Maximum (Per diode) Instantaneous Forward Voltage* | VF | 0.60V | IFM=200A;ТJ = 25°С |
| Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode) | lr | 5mA 350mA | T _J = 25°C T _J = 100°C |
| Maximum Thermal Resistance Junction To Case (Per diode) | Rejc | 0.35°C/W | |
| Mounting torque | | 35-40 In-lb 30-40 In-lb 8-10 In-lb | Terminal torque Outside holes Center hole |
| Weight | | 84g | |

^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle < 2%

Figure .1-Typical Forward Characteristics

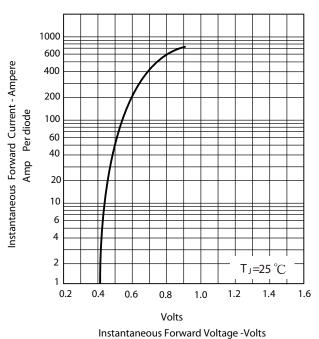


Figure .2-Forward Derating Curve

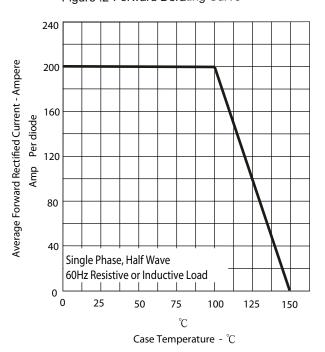


Figure.3- Peak Forward Surge Current

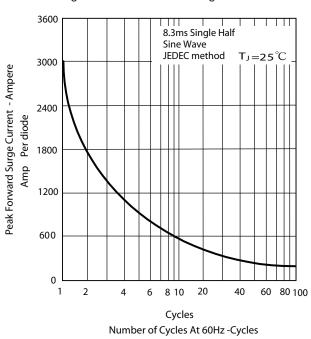
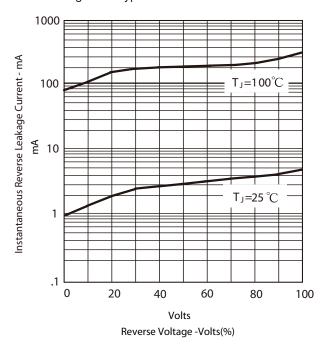


Figure.4- Typical Reverse Characteristics





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