

MUR2020C thru MUR2060C





Pb Free Plating Product

20.0 Ampere Dual Common Cathode Ultra Fast Recovery Diodes

Features

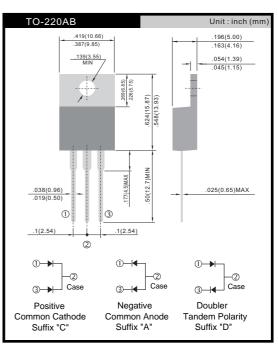
- ★ Fast switching for high efficiency
- Low forward voltage drop
- ★ High current capability
- Low reverse leakage current
- ★ High surge current capability

Application

- ★ Automotive Inverters/Solar Inverters
- ★ Plating Power Supply,SMPS and UPS
- ★ Car Audio Amplifiers and Sound Device Systems

Mechanical Data

- ★ Case: Heatsink TO-220AB
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-202 method 208
- ★ Polarity: As marked on diode body
- Mounting position: Any
- ★ Weight: 2.2 gram approximately



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%.

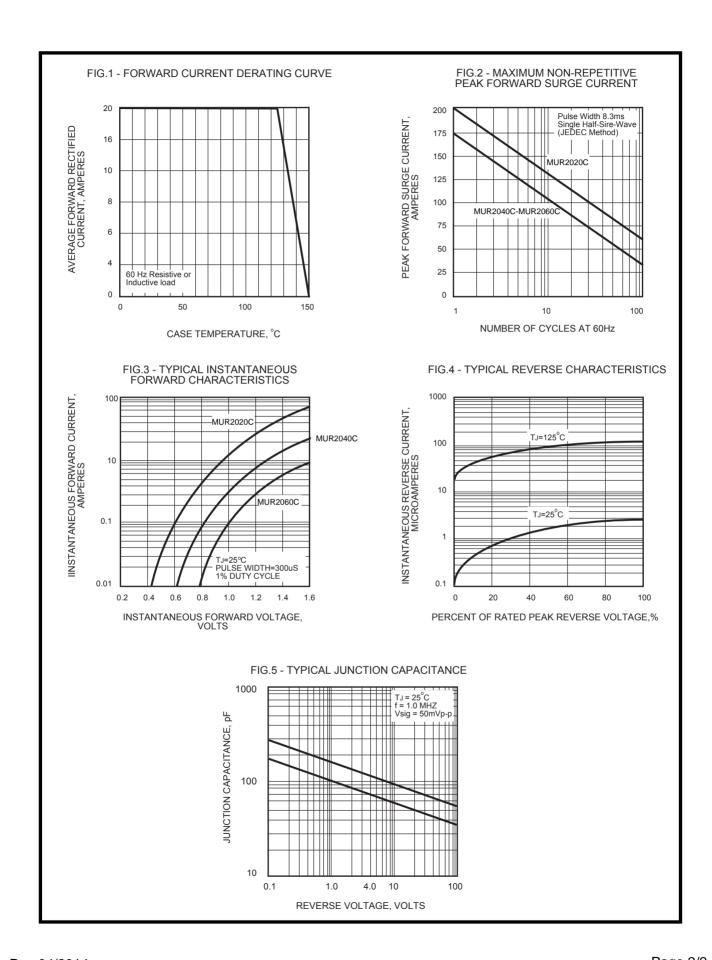
| | SYMBOL | MUR2020C MUR2020A MUR2020D | MUR2040C MUR2040A MUR2040D | MUR2060C MUR2060A MUR2060D | UNIT |
|---|----------|----------------------------------|----------------------------------|----------------------------------|------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 200 | 400 | 600 | V |
| Maximum RMS Voltage | VRMS | 140 | 280 | 420 | V |
| Maximum DC Blocking Voltage | VDC | 200 | 400 | 600 | V |
| Maximum Average Forward Rectified Current Tc=125°C | IF(AV) | 20.0 | | А | |
| Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method) | lfsm | 200 | 175 | | А |
| Maximum Instantaneous Forward Voltage @ 10.0 A | VF | 0.98 | 1.3 | 1.7 | V |
| Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=125°C | lR | 10.0 250 | | uA uA | |
| Maximum Reverse Recovery Time (Note 1) | Trr | 35 | | | nS |
| Typical junction Capacitance (Note 2) | Сл | 120 70 | | pF | |
| Operating Junction and Storage Temperature Range | TJ, TSTG | -55 to +150 | | | °C |

NOTES : (1) Reverse recovery test conditions IF = 0.5A, IR = 1.0A, Irr = 0.25A.

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

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