Super Fast Recovery Rectifier multicomp





Features:

- · High surge capability
- · Low leakage
- · Low forward voltage drop
- · Ultra fast switching speed for high efficiency
- · Reverse voltage: 200 to 600 Volts
- · Forward current: 4 Amperes

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%.

| Type Number | Symbol | MUR420 | MUR440 | MUR460 | Units |
|---|----------------|-------------|----------|--------|--|
| Max. Recurrent Peak Reverse Voltage | VRRM | 200 | 400 | 600 | |
| Max. RMS Voltage | VRMS | 140 | 280 | 420 | V |
| Max. DC Blocking Voltage | VDC | 200 | 400 | 600 | <u> </u> |
| Max. Average Forward Rectified Current @TA = 55°C | I(AV) | 4 | | | |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | Ігѕм | 150 | | A | |
| Max Instantaneous Forward Voltage IFM = 4A @ TA = 25°C (Note 3) | VF | | 1.35 | | V |
| Max. DC Reverse Current at $T_A = 25$ °C Rated DC Blocking Voltage at $T_A = 125$ °C | lR | | 10 50 | | μΑ μΑ |
| Max. Reverse Recovery Time (Note 1) | TRR | | 60 | , | nS |
| Typical Junction Capacitance (Note 2) | CJ | | 80 | , | pF |
| Typical Thermal Resistance | Reja | | 20 | | °C/W |
| Operating Temperature Range | T _J | -55 to +150 | | °C | |
| Storage Temperature Range | Тѕтс | | | | |

Notes:

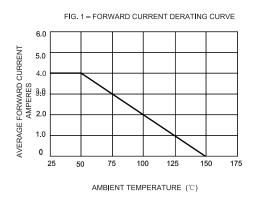
- 1. Measured with IF = 0.5A, IR = 1A, IRR = 0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
- 3. Pulse test: Pulse width 300µ sec, Duty cycle 1%
- 4. The typical data above is for reference only

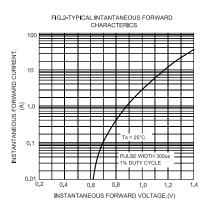


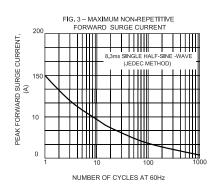
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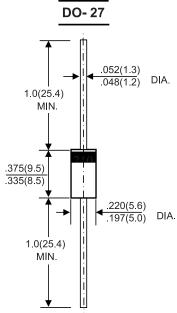
Ratings and Characteristic Curves







Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

| Description | Part Number | | |
|-----------------------|-------------|--|--|
| Diode, Fast, 4A, 200V | MUR420 | | |
| Diode, Fast, 4A, 400V | MUR440 | | |
| Diode, Fast, 4A, 600V | MUR460 | | |

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