

MUR405-MUR460

High-reliability discrete products and engineering services since 1977

4 AMP ULTRA FAST RECTIFIER

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

| MAXIMUN | 1 RATINGS |
|---------|-----------|
| | |

| Rating | Symbol | MUR405 | MUR410 | MUR415 | MUR420 | MUR440 | MUR460 | Unit |
|---|--|---|--------|--------|---------------------|--------|--------|------|
| Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage | V _{RRM} V _{RWM} V _R | 50 | 100 | 150 | 200 | 400 | 600 | V |
| Average rectified forward current (square wave) Mounting method per note 2 | I _{F(AV)} | 4.0 @ $T_A = 80^{\circ}C$ 4.0 @ $T_A = 40^{\circ}C$ | | | _A = 40°C | A | | |
| Non-repetitive peak surge current (surge applied at rated load conditions halfwave, single phase, 60Hz) | IFSM | 125 1 | | | 10 | A | | |
| Operating and storage junction temperature range | TJ, Tstg | -65 to +175 | | | °C | | | |
| Maximum thermal resistance Junction to ambient | R _{eja} | Note 2 | | | | °C/W | | |

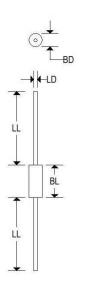
ELECTRICAL CHARACTERSITICS (T_A = 25°C unless otherwise specified)

| Parameter | Symbol | MUR405 | MUR410 | MUR415 | MUR420 | MUR440 | MUR460 | Unit |
|--|-----------------|--------------------------|--------|--------|--------|--------|--------|------|
| Maximum instantaneous forward voltage (1) | | | | | | | | |
| (I _F = 3.0A, T _J = 150°C) | | | 0.71 | | | 1.05 | | |
| (I _F = 3.0A, T _J = 25°C) | VF | 0.88 0.89 | | | 1.25 | | V | |
| (I _F = 4.0A, T _J = 25°C) | | | | | | | | |
| Maximum instantaneous reverse current (1) | | | | | | | | |
| (Rated dc voltage, T」= 150°C) | I _R | I _R 150 | | | 250 | | μA | |
| (Rated dc voltage, T _J = 25°C) | | 5 | | | 10 | | | |
| Maximum reverse recovery time | | | | | | | | |
| (I _F = 1.0A, di/dt = 50A/μs) | t _{rr} | t _{rr} 35 25 | | | 75 | | ns | |
| (I _F = 0.5A, I _R = 1.0A, I _{REC} = 0.25A) | | | | | 50 | | | |
| Maximum forward recovery time | | | | | | | | ns |
| (I _F = 1.0A, di/dt = 100A/µs, I _{REC} to 1.0V) | t _{fr} | 25 | | | 50 | | | |
| Controlled avalanche energy | WAVAL | | - | | 5 | | - | mJ |



MECHANICAL CHARACTERISTICS

| Case | DO-201A | | |
|-------------------------------------|--------------|--|--|
| Marking Body painted, alpha-numeric | | | |
| Polarity | Cathode band | | |



| | DO-201A | | | | | | |
|----|---------|-------|--------|-------|--|--|--|
| | Inc | hes | Millim | eters | | | |
| | Min | Max | Min | Max | | | |
| BD | 0.190 | 0.260 | 4.826 | 6.604 | | | |
| BL | 0.285 | 0.375 | 7240 | 9.530 | | | |
| LD | 0.048 | 0.052 | 1.219 | 1.321 | | | |
| LL | 1.000 | 181 | 25.400 | ¥ | | | |

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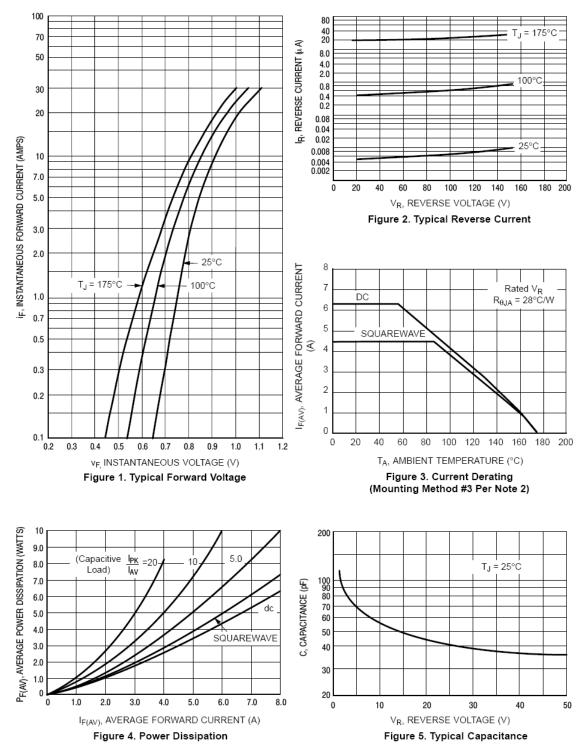
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MUR405, MUR410, MUR415, MUR420





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