| MUR460-E |
| :---: |
| GLASS PASSIVATED JUNCTION <br> Ultra fast Plastic Rectifiers <br> cURRENT: 4.0A |

## FEATURE

Plastic package has Underwriters Laboratories Flammability Classification 94V-0
Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
Ultra fast recovery time for high efficiency
Excellent high temperature switching
Glass passivated junction
High temperature soldering guaranteed:
$250^{\circ} \mathrm{C} / 10$ seconds, $0.375^{\prime \prime}(9.5 \mathrm{~mm})$ lead length, 5 lbs . $(2.3 \mathrm{~kg})$ tension Halogen Free

## MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body over passivated chip Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.045 oz., 1.2 g

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60 HZ , resistive or inductive load rating at $25^{\circ} \mathrm{C}$, unless otherwise stated)

|  | SYMBOL | MUR460-E | units |
| :---: | :---: | :---: | :---: |
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 600 | V |
| Maximum RMS Voltage | Vrms | 420 | V |
| Maximum DC blocking Voltage | Vdc | 600 | V |
| Maximum Average Forward Rectified | If(av) | 4.0 | A |
| Peak Forward Surge Current 8.3 ms single half sinewave superimposed on rated load | Ifsm | 150 | A |
| Maximum Forward Voltage at rated Forward Current and $25^{\circ} \mathrm{C}$ | Vf | 1.28 | V |
| Maximum Reverse Recovery Time (Note 1) | Trr | 45 | nS |
| Typical thermal resistance junction to ambient $\begin{aligned} & \text { (Note 2) }\end{aligned}$ | Rth(ja) | 28 | C/W |
| Maximum DC Reverse Current $\mathrm{Ta}=25^{\circ} \mathrm{C}$ <br> at rated DC blocking voltage $\mathrm{Ta}=125^{\circ} \mathrm{C}$ | Ir | $\begin{gathered} \hline 10 \\ 100 \end{gathered}$ | $\mu \mathrm{A}$ |
| Storage and Operating Temperature Range | Tstg, Tj | -55 to +150 | ${ }^{\circ} \mathrm{C}$ |
| Note: <br> 1. Reverse Recovery Condition If $=0.5 \mathrm{~A}, \mathrm{Ir}=1.0 \mathrm{~A}, \mathrm{Irr}=0.25 \mathrm{~A}$ <br> 2. Lead length $=1 / 2^{\prime \prime}$ on P.C. board with $1.5^{\prime \prime} \times 1.5$ " copper surface |  |  |  |

## RATINGS AND CHARACTERISTIC CURVES MUR460-E

Fig. 1 - Forward Current Derating Curve


Fig. 3 - Typical Instantaneous Forward Characteristics


Fig. 5-Typical Junction Capacitance per Leg


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current


Fig. 4 - Typical Reverse Characteristics


