20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A.

Ultrafast Recovery Rectifier

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FEATURES

- · Ultrafast Recovery Time
- Low Forward Voltage
- Low Leakage Current
- 175℃ Operating Junction Temperature
- · High Temperature Glass Passivated Junction

MECHANICAL CHARACTERISTICS

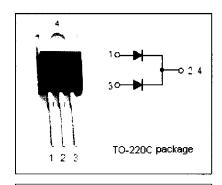
- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260 ^o Max.
 for 10 Seconds

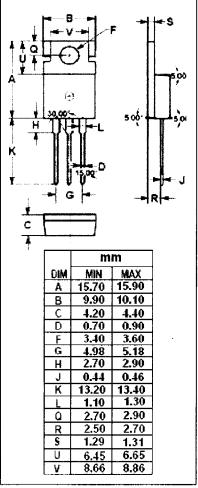
APPLICATIONS

 Designed for use in switching power supplies, inverters and as free wheeling diodes.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

| SYMBOL | PARAMETER | VALUE | UNIT |
|--|--|---------|------|
| V _{RRM} V _{RWM} V _R | Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | 600 | V |
| I _{F(AV)} | Average Rectified Forward Current Per Leg (Rated V _R) Total Device | 8 16 | A |
| I _{FM} | Peak Repetitive Forward Current (Rated V _R , Square Wave, 20kHz) Per Diode Leg | 16 | А |
| I _{FSM} | Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz) | 100 | Α |
| Тл | Junction Temperature | -65~175 | °C |
| T_{stg} | Storage Temperature Range | -65~175 | °C |





NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors

MUR1660CT

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THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|---------------------|-------------------------------------|-----|---------------|
| R _{th j-c} | Thermal Resistance,Junction to Case | 2.0 | °C M V |

ELECTRICAL CHARACTERISTICS(T_a=25℃) (Pulse Test: Pulse Width=300 µ s,Duty Cycle ≤2%)

| SYMBOL | PARAMETER | CONDITIONS | MAX | UNIT |
|-----------------|---------------------------------------|---|------|------------|
| V _F | Maximum Instantaneous Forward Voltage | I _F = 8A | 1.68 | ٧ |
| I _R | Maximum Instantaneous Reverse Current | V _{RRM} = 600V | 3 | μ Α |
| t _{rr} | Maximum Reverse Recovery Time | I _F = 0.5A, I _R = 1A, I _{rr} = 0.25A | 60 | ns |