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

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**MUR1660CT** 

#### **FEATURES**

- · Ultrafast Recovery Time
- · Low Forward Voltage
- Low Leakage Current
- 175  $^{\circ}\mathrm{C}$  Operating Junction Temperature
- · High Temperature Glass Passivated Junction

### **MECHANICAL CHARACTERISTICS**

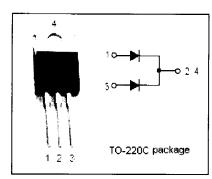
- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260<sup>°</sup>C Max. for 10 Seconds

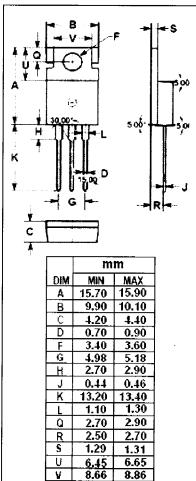
### **APPLICATIONS**

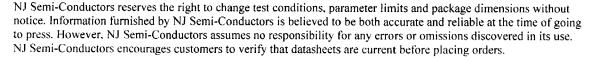
• Designed for use in switching power supplies, inverters and as free wheeling diodes.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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









# **Ultrafast Recovery Rectifier**

**MUR1660CT** 

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	2.0	°CW

## **ELECTRICAL CHARACTERISTICS(T<sub>a</sub>=25°C)** (Pulse Test: Pulse Width=300 $\mu$ s,Duty Cycle $\leq$ 2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F</sub>	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 8A	1.68	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>RRM</sub> = 600V	3	μА
t <sub>rr</sub>	Maximum Reverse Recovery Time	I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1A, I <sub>rr</sub> = 0.25A	60	ns