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**MUR3060** 

## **Ultrafast Recovery Rectifier**

#### **FEATURES**

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

#### **MECHANICAL CHARACTERISTICS**

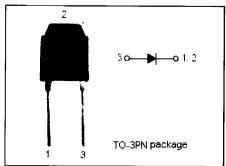
- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260<sup>°</sup>C Max. for 10 Seconds

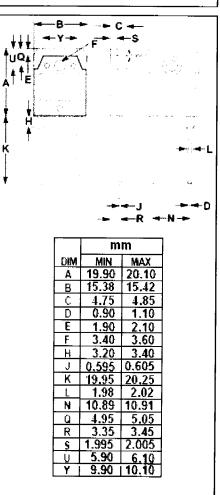
#### **APPLICATIONS**

 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 (Rated V <sub>R</sub> )	30	А
I <sub>FRM</sub>	Peak Repetitive Forward Current (Rated V <sub>R</sub> ,Square Wave,20kHz)	30	А
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	300	Α
TJ	Junction Temperature	-65~175	С
$T_{stg}$	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.

# **Ultrafast Recovery Rectifier**

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case	1.0	°C/W

**ELECTRICAL CHARACTERISTICS(T<sub>a</sub>=25℃)** (Pulse Test: Pulse Width=300 μ s, Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F</sub>	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 30A	1.68	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>RRM</sub> = 600V	20	μА
t <sub>rr</sub>	Maximum Reverse Recovery Time	I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1A, I <sub>II</sub> = 0.25A	80	ns