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**

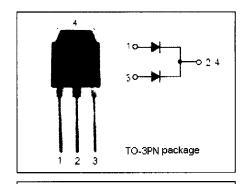
- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable

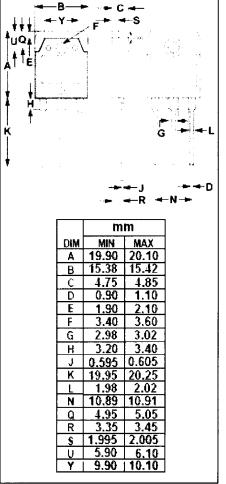
## **APPLICATIONS**

• 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 <b>Per Leg</b> (Rated V <sub>R</sub> ) <b>Total Device</b>	15 30	Α
I <sub>FM</sub>	Peak Repetitive Forward Current (Rated V <sub>R</sub> , Square Wave,20kHz) <b>Per Diode Leg</b>	30	Α
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	150	Α
TJ	Junction Temperature	-65~175	${\mathcal C}$
T <sub>stg</sub>	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.



## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	1.5	°C <b>M</b>

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> = 15A	1.68	٧
I <sub>R</sub>	Maximum Instantaneous Reverse Current	V <sub>RRM</sub> = 600V	5	μА
t <sub>rr</sub>	Maximum Reverse Recovery Time	I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1A, I <sub>n</sub> = 0.25A	60	ns