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U.S.A.

Ultrafast Recovery Rectifier

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MUR3030

FEATURES

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

MECHANICAL CHARACTERISTICS

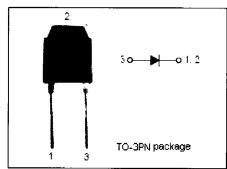
- · Case: Epoxy, Molded
- · Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260 °C Max. for 10 Seconds

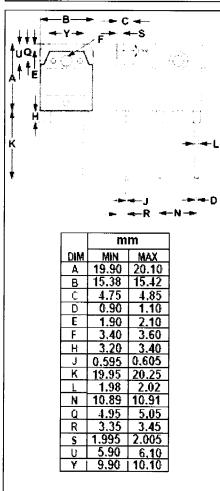
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	300	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R)	30	A
I _{FRM}	Peak Repetitive Forward Current (Rated V _R ,Square Wave,20kHz)	30	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	300	А
TJ	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.

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THERMAL CHARACTERISTICS

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

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 30A	1.68	V
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 300V	20	μА
t _{rr}	Maximum Reverse Recovery Time	I _F = 0.5A, I _R = 1A, I _{II} = 0.25A	60	ns