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MUR3040

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

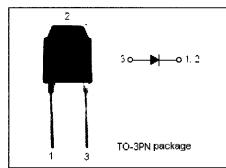
- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260 ^oC Max.
 for 10 Seconds

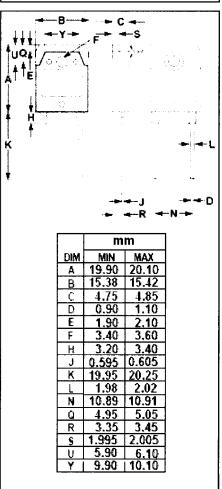
APPLICATIONS

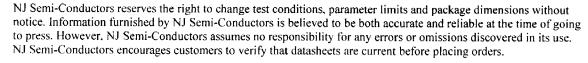
 Designed for use in switching power supplies, inverters and as free wheeling diodes.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R)	30	Α
I _{FRM}	Peak Repetitive Forward Current (Rated V _R ,Square Wave,20kHz)	30	Α
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	300	Α
TJ	Junction Temperature	-65~175	°C
T _{stg}	Storage Temperature Range	-65~175	°C







THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.0	.cw

ELECTRICAL CHARACTERISTICS(T_a=25°C) (Pulse Test: Pulse Width=300 μ s, Duty Cycle \leq 2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 30A	1.68	V
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 400V	20	μА
t _{rr}	Maximum Reverse Recovery Time	I _F = 0.5A, I _R = 1A, I _{rr} = 0.25A	60	ns