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MUR1550

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

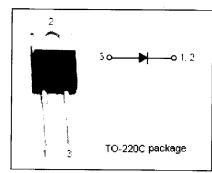
- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260[°]C Max. for 10 Seconds

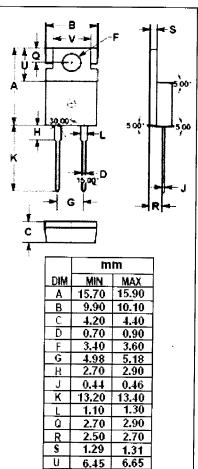
APPLICATIONS

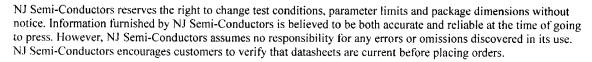
 Designed for use in switching power supplies, inverters and as free wheeling diodes.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

	1100(18 200)	r	
SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	500	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R)	15	А
I _{FRM}	Peak Repetitive Forward Current (Rated V _R ,Square Wave,20kHz)	30	А
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	150	Α
TJ	Junction Temperature	-65~175	°C
T _{stg}	Storage Temperature Range	-65~175	°C









Ultrafast Recovery Rectifier

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.5	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 15A	1.68	V
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 500V	5	μА
t _{rr}	Maximum Reverse Recovery Time	I _F = 0.5A, I _R = 1A, I _π = 0.25A	60	ns