New Jersey Semi-Conductor Products, Inc.

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MUR840

Ultrafast Recovery Rectifier

FEATURES

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

MECHANICAL CHARACTERISTICS

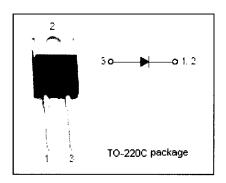
- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260[°]C Max. for 10 Seconds

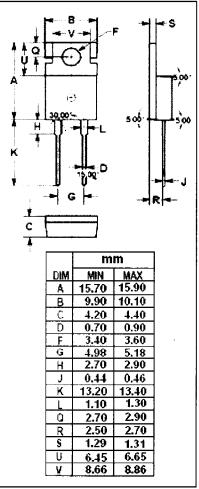
APPLICATIONS

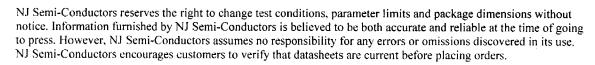
 Designed for use in switching power supplies, inverters and as free wheeling diodes.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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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)	8	А					
l _{FM}	Peak Repetitive Forward Current (Rated V _R ,Square Wave,20kHz)	16	Α					
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	100	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	2.0	℃W

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

SYMBOL	PARAMETER	CONDITIONS	мах	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 8A	1.68	V
I _R	Maximum Instantaneous Reverse Current	V _{RRM} = 400V	3	μ А
t _{rr}	Maximum Reverse Recovery Time	I _F = 0.5A, I _R = 1A, I _{rr} = 0.25A	60	ns