

Product Preview

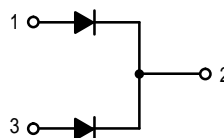
SWITCHMODE™ Power Rectifier

... designed for use in switching power supplies, inverters and as free wheeling diodes, these state-of-the-art devices have the following features:

- Ultrafast 35 Nanosecond Recovery Times
- 175°C Operating Junction Temperature
- Electrically Isolated. No Isolation Hardware Required.
- Epoxy Meets UL94, V_O @ 1/8"
- High Temperature Glass Passivated Junction
- High Voltage Capability to 600 Volts
- Low Leakage Specified @ 150°C Case Temperature

Mechanical Characteristics

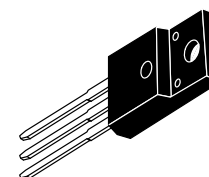
- Case: Epoxy, Molded
- Weight: 1.9 grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- Shipped 50 units per plastic tube
- Marking: UH860



MURHF860CT

Motorola Preferred Device

ULTRAFAST RECTIFIER
8.0 AMPERES
600 VOLTS



CASE 221D-02
ISOLATED TO-220

MAXIMUM RATINGS, PER LEG

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	600	Volts
Average Rectified Forward Current Total Device, (Rated V _R), T _C = 120°C	I _{F(AV)}	4.0 8.0	Amps
Peak Repetitive Forward Current (Rated V _R , Square Wave, 20 kHz), T _C = 120°C	I _{FM}	16	Amps
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	I _{FSM}	100	Amps
Operating Junction Temperature and Storage Temperature	T _J , T _{stg}	-65 to +150	°C

THERMAL CHARACTERISTICS, PER LEG

Maximum Thermal Resistance, Junction to Case	R _{θJC}	4.1	°C/W
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ELECTRICAL CHARACTERISTICS, PER LEG

Maximum Instantaneous Forward Voltage (1) (i _F = 4.0 Amps, T _C = 150°C) (i _F = 4.0 Amps, T _C = 25°C)	v _F	2.5 2.8	Volts
Maximum Instantaneous Reverse Current (1) (Rated dc Voltage, T _C = 150°C) (Rated dc Voltage, T _C = 25°C)	i _R	500 10	μA
Maximum Reverse Recovery Time (I _F = 1.0 Amp, di/dt = 50 Amps/μs)	t _{rr}	35	ns

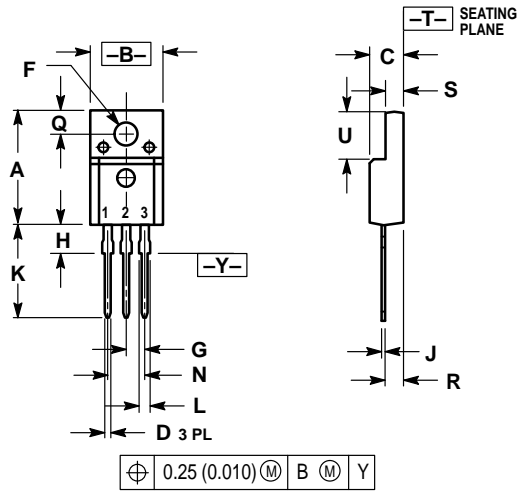
(1) Pulse Test: Pulse Width = 300 μs, Duty Cycle ≤ 2.0%

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Preferred devices are Motorola recommended choices for future use and best overall value.

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PACKAGE DIMENSIONS



- NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: INCH.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.621	0.629	15.78	15.97
B	0.394	0.402	10.01	10.21
C	0.181	0.189	4.60	4.80
D	0.026	0.034	0.67	0.86
F	0.121	0.129	3.08	3.27
G	0.100	BSC	2.54	BSC
H	0.123	0.129	3.13	3.27
J	0.018	0.025	0.46	0.64
K	0.500	0.562	12.70	14.27
L	0.045	0.060	1.14	1.52
N	0.200	BSC	5.08	BSC
Q	0.126	0.134	3.21	3.40
R	0.107	0.111	2.72	2.81
S	0.096	0.104	2.44	2.64
U	0.259	0.267	6.58	6.78

- STYLE 4:
1. CATHODE
 2. ANODE
 3. CATHODE

CASE 221D-02
ISSUE D

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