

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MURHF860CT

Switch-mode Power Rectifier

These state-of-the-art Switch-mode power rectifiers are designed for use in switching power supplies, inverters and as free wheeling diodes.

Features

- Ultrafast 35 Nanosecond Recovery Times
- 150°C Operating Junction Temperature
- Electrically Isolated. No Isolation Hardware Required
- Epoxy Meets UL 94 V-0 @ 0.125 in
- High Temperature Glass Passivated Junction
- High Voltage Capability to 600 V
- Low Leakage Specified @ 150°C Case Temperature
- This is a Pb-Free Package*

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

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	٧
Average Rectified Forward Current (Rated V _R , T _C = 120°C) Total Device	I _{F(AV)}	4.0 8.0	Α
Peak Repetitive Forward Current (Rated V _R , Square Wave, 20 kHz, T _C = 120°C)	I _{FM}	16	Α
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 Hz)	I _{FSM}	100	Α
Operating Junction and Storage Temperature Range	T _J , T _{stg}	-65 to +150	°C

THERMAL CHARACTERISTICS (Per Leg)

Rating	Symbol	Value	Unit
Max Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	4.1	°C/W

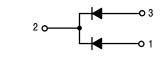
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.



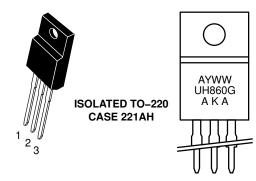
ON Semiconductor®

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ULTRAFAST RECTIFIER 8.0 AMPERES, 600 VOLTS



MARKING DIAGRAM



A = Assembly Location

Y = Year
WW = Work Week
UH860 = Device Code
G = Pb-Free Package
AKA = Diode Polarity

ORDERING INFORMATION

Device	Package	Shipping
MURHF860CTG	TO-220 (Pb-Free)	50 Units/Rail

^{*}For additional information on our Pb–Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

MURHF860CT

ELECTRICAL CHARACTERISTICS (Per Leg)

Characteristic	Symbol	Value	Unit
Maximum Instantaneous Forward Voltage (Note 1)	V _F	2.5 2.8	V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, $T_C = 150^{\circ}C$) (Rated DC Voltage, $T_C = 25^{\circ}C$)	İR	500 10	μΑ
Maximum Reverse Recovery Time $(I_F = 1.0 \text{ A, di/dt} = 50 \text{ A/}\mu\text{s})$	t _{rr}	35	ns

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

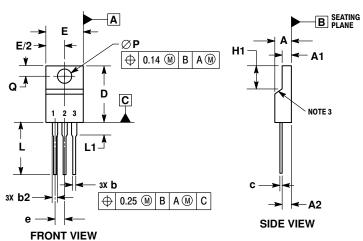
1. Pulse Test: Pulse Width = 300 μ s, Duty Cycle \leq 2.0%

MURHF860CT

PACKAGE DIMENSIONS

TO-220 FULLPACK, 3-LEAD

CASE 221AH ISSUE F

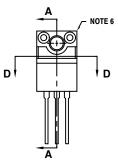


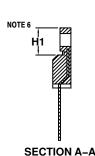


- 1. DIMENSIONING AND TOLERANCING PER ASME
- Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS.
- 3. CONTOUR UNCONTROLLED IN THIS AREA.
 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH AND GATE PROTRUSIONS. MOLD FLASH AND GATE PROTRUSIONS NOT TO EXCEED 0.13 PER SIDE. THESE DIMENSIONS ARE TO BE MEASURED AT OUTERMOST EXTREME OF THE PLASTIC BODY.
- DIMENSION 62 DOES NOT INCLUDE DAMBAR PROTRUSION. LEAD WIDTH INCLUDING PROTRUSION SHALL NOT EXCEED 2.00.
- 6. CONTOURS AND FEATURES OF THE MOLDED PACKAGE BODY MAY VARY WITHIN THE ENVELOP DEFINED BY DIMENSIONS A1 AND H1 FOR MANUFACTURING PURPOSES.

	MILLIMETERS		
DIM	MIN	MAX	
Α	4.30	4.70	
A1	2.50	2.90	
A2	2.50	2.90	
b	0.54	0.84	
b2	1.10	1.40	
С	0.49	0.79	
D	14.70	15.30	
E	9.70	10.30	
е	2.54 BSC		
H1	6.60	7.10	
L	12.50	14.73	
L1		2.80	
P	3.00	3.40	
Q	2.80	3.20	







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