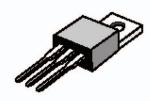


Designed for use in switching power supplies inverters and as free wheeling diodes. These state-of-the-art devices have the following features:

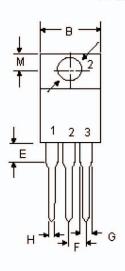
Switch mode Dual Ultrafast Power Rectifiers

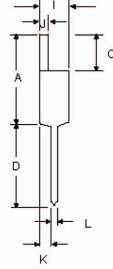


Features:

- High surge capacity.
- Low power loss, high efficiency.
- Glass passivated chip junctions.
- 150°C operating junction temperature.
- Low stored charge majority carrier conduction.
- Low forward voltage, high current capability.
- High-switching speed 50 nanosecond recovery time.
- Plastic material used carries Underwriters Laboratory Flammability Classification 94V-O.

16 Amperes 400-600 Volts TO-220AB





DIM	MILLMETERS			
	MIN	MAX		
Α	14.68	15.32		
В	9.78	10.42		
C	6.01	6.52		
D	13.06	14.62		
E	3.57	4.07		
F	2.42	2.66		
G	1.12	1.36		
н	0.72	0.96		
1	4.22	4.98		
J	1.14	1.36		
K	2.20	2.97		
L	0.33	0.55		
M	2.48	2.98		
0	3.70	3.90		

Dimensions : Millimetres

Common Cathode



Part Number Table

Description	Part Number	
Ultra Fast Rectifiers	MUR1640CT	
Ultra Fast Rectifiers	MUR1660CT	

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Maximum Ratings

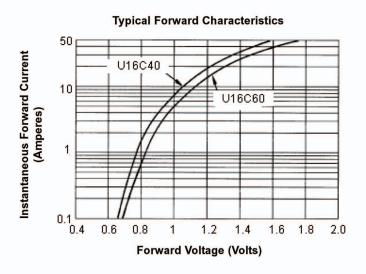
Characteristic	Symbol	MUR1640CT	MUR1660CT	Units	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM} \ V_{RWM} \ V_{R}$	400	600	V	
RMS Reverse Voltage	V _{R (RMS)}	280	420		
Average Rectifier Forward Current Per Leg T _C = 125°C Per Total Device	I _{F (AV)}	8.0 16			
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz, T _C = 125°C)	I _{FM}	16		Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	125			
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to	-65 to +150		

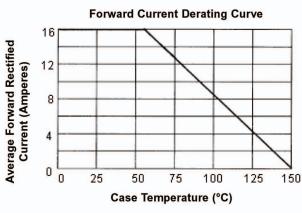
Electrical Characteristics

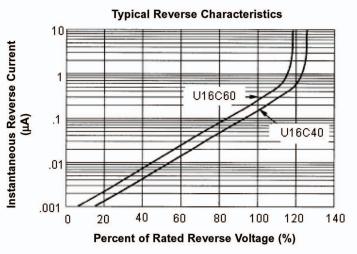
Characteristic	Symbol	MUR1640CT	MUR1660CT	Units
Maximum Instantaneous Forward Voltage ($I_F = 8.0 \text{ Amperes } T_C = 25^{\circ}\text{C}$) ($I_F = 8.0 \text{ Amperes } T_C = 100^{\circ}\text{C}$)	V _F	1.30 1.12	1.50 1.34	٧
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R	10 500		μА
Reverse Recovery Time $(I_F = 0.5A, I_R = 1.0 I_{rr} = 0.25A)$	T _{rr}	50		ns
Typical Junction Capacitance (Reverse Voltage of 4 volts and f = 1 MHz)	C _P	7	70	pF

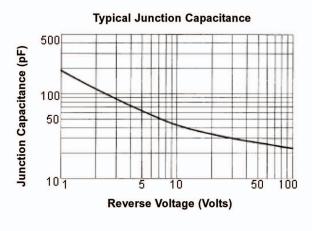


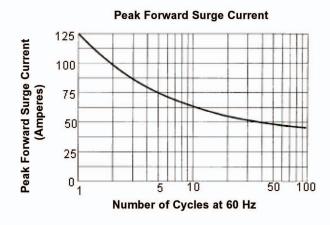








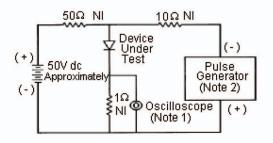


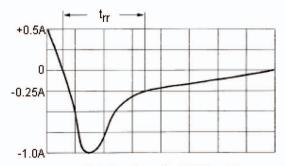


multicomp

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Set time base for 10/20 ns/div

Reverse Recovery Time Characteristic and Test Circuit Diagram

Notes:

- 1. Rise Time = 7 ns maximum input impedance = $1M\Omega$, 22pF.
- 2. Rise Time = 10 ns maximum input impedance = 50Ω .

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