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MUR1605CT MUR1630CT MUR1610CT MUR1640CT MUR1615CT MUR1650CT MUR1620CT MUR1660CT TELEPHONE: (973) 376-2922

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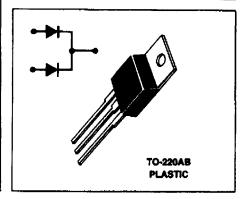
SWITCHMODE POWER RECTIFIERS

... 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 and 60 Nanosecond Recovery Times
- 175°C Operating Junction Temperature
- Popular TO-220 Package
- Epoxy meets UL94, V_O @ 1/6"
- High Temperature Glass Passivated Junction
- High Voltage Capability to 600 Volts
- Low Leakage Specified @ 150°C Case Temperature
- Current Derating @ Both Case and Ambient Temperatures

ULTRAFAST RECTIFIERS

8 AMPERES 50-600 VOLTS



MAXIMUM RATINGS

Rating	Symbol	MUR								
		1605CT	1610CT	1615CT	1620CT	1630CT	1640CT	1650CT	1660CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	500	600	Volts
Average Rectified Forward Current Total Device, (Rated V _R), T _C = 150°C Per Leg Total Device	IF(AV)	8.0 16								Amps
Peak Repetitive Forward Current Per Diode Leg (Rated V _R , Square Wave, 20 kHz), T _C = 150°C	^I FM	16							Amps	
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 80 Hz)	^I FSM	100							Amps	
Operating Junction Temperature and Storage Temperature	Tj, Tstg	- 65 to + 175							°C	

THERMAL CHARACTERISTICS, PER DIODE LEG

Maximum Thermal Resistance, Junction to Case	Rauc	3.0	2.0		°C/W						
ELECTRICAL CHARACTERISTICS, PER DIODE LEG											
Maximum Instantaneous Forward Voltage (1) (iF=8.0 Amp, T_C =150°C) (iF=8.0 Amp, T_C =25°C)	٧F	0.895 0.975	1.00 1.30	1.20 1.50	Volts						
Maximum Instantaneous Reverse Current (1) (Rated dc Voltage, T _C = 150°C) (Rated dc Voltage, T _C = 25°C)	iR	250 5.0	500 10	500 10	Au						
Maximum Reverse Recovery Time (Ip = 1.0 Amp, di/dt = 50 Amp/µs) (Ip = 0.5 Amp, ip = 1.0 Amp, IREC = 0.25 Amp)	trr	35 25	60 50		ns						

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

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Quality Semi-Conductors

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