New Jersey Semi-Conductor Products, Inc.

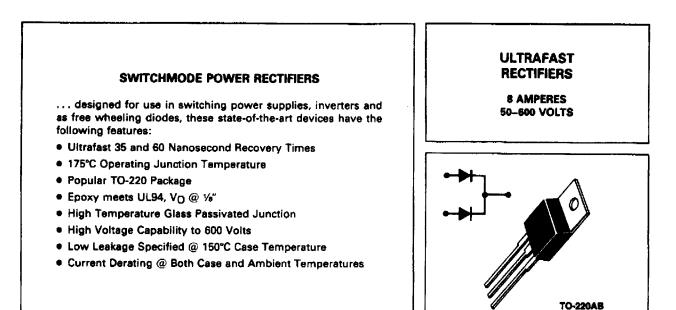
## 20 STERN AVE.

SPRINGFIELD, NEW JERSEY 07081 U.S.A.

## MUR1605CT MUR1630CT MUR1610CT MUR1640CT MUR1615CT MUR1650CT MUR1620CT MUR1660CT

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PLASTIC



## 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	VARM VRWM VR	50	100	150	200	300	400	500	600	Volts
Average Rectified Forward Current Per Leg Total Device, (Rated V <sub>R</sub> ), T <sub>C</sub> = 150°C Total Device	IF(AV)	8.0 16								Amps
Peak Repetitive Forward Current Per Diode Leg   (Rated VR, Square Wave, 20 kHz), TC = 150°C	IFM	16								Amps
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	IFSM	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	1	3.0 2.0							°C/W
ELECTRICAL CHARACTERISTICS, PER DIODE LEG		•								
Maximum Instantaneous Forward Voltage (1) (if = 8.0 Amp, T <sub>C</sub> = 150°C) (if = 8.0 Amp, T <sub>C</sub> = 25°C)	٧F		0. <b>89</b> 5 0.975			1.0	-		20 50	Volts
Maximum Instantaneous Reverse Current (1) (Rated dc Voltage, T <sub>C</sub> = 150°C) (Rated dc Voltage, T <sub>C</sub> = 25°C)	İR		25 5.0	-		50 10	-	-	00 10	<b>م</b> بر
Maximum Reverse Recovery Time (Ip = 1.0 Amp, di/dt = 50 Amp/µs) (Ip = 0.5 Amp, ig = 1.0 Amp, Igec = 0.25 Amp)	trr		35 60 25 50							ns

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

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## **Quality Semi-Conductors**