New Jersey Semi-Conductor Products, Inc.

20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081	MUR405	MUR430	TELEPHONE: (973) 376-2922 (212) 227-6005
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	MUR415	MUR450	
	MUR420	MUR460	



MAXIMUM RATINGS

Rating	Symbol	MUR								
		405	410	415	420	430	440	450	460	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	150	200	300	400	500	600	Voits
Average Rectified Forward Current (Square Wave) (Mounting Method #3 Per Note 1)	IF(AV)	$4 0 @ T_A = 80^{\circ}C$ $4.0 @ T_A = 40^{\circ}C$						c	Amps	
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	IFSM	125				70				Amps
Operating Junction Temperature and Storage Temperature	T _J , T _{stg}	- 65 to +175							°C	
THERMAL CHARACTERISTICS							<u></u>			
Maximum Thermal Resistance, Junction to Ambient	R _{ÐJA}	See Note 1					°C/W			
ELECTRICAL CHARACTERISTICS										
Maximum Instantaneous Forward Voltage (1) $\langle i_F = 3 0 \text{ Amp}, T_J = 150^{\circ}\text{C} \rangle$ $\langle i_F = 3 0 \text{ Amp}, T_J = 25^{\circ}\text{C} \rangle$ $\langle i_F = 4.0 \text{ Amp}, T_J = 25^{\circ}\text{C} \rangle$	۷F	0 710 1 05 0 875 1.25 0 890 1 28				05 25 28		Volts		
Maximum Instantaneous Reverse Current (1) (Rated dc Voltage, $T_J = 150^{\circ}$ C) (Rated dc Voltage, $T_J = 25^{\circ}$ C)	'R	150 5 0				250 10				μA
Maximum Reverse Recovery Time ($I_F = 1.0 \text{ Amp}, di/dt = 50 \text{ Amp}/\mu s$) ($I_F = 0.5 \text{ Amp}, I_R = 1.0 \text{ Amp}, I_{REC} = 0.25 \text{ Amp}$)	trr		35 25				75 50			
Maximum Forward Recovery Time (I _F = 1.0 A, dt/dt = 100 A/µs, Recovery to 1 0 V)	tfr	25			50				ńs	

(1) Pulse Test: Pulse Width = 300 $\mu s,$ Duty Cycle $\leq 2.0\%$



Quality Semi-Conductors