New Jersey Semi-Conductor Products, Inc.

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MR5005 MR5010 MR5020 MR5030 MR5040

MAXIMUM RATINGS

Rating	Symbol	MR5005	MR5010	MR5020	MR5030	MR5040	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	300	400	Volts	
Non-Repetitive Peak Reverse Voltage	VRSM	75	150	250	400	450	Volts	
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	Volts	
Average Rectified Forward Current (Single phase, resistive load, T _C = 150°C	10	50						
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions)	^I FSM	600						
Operating and Storage Junction Temperature Range	T _J ,T _{stg}	-		-65 to +19	5	-	°C	

THERMAL CHARACTERISTICS

1 Symbol 1		IVIdX	at L. Olin		
Rojo	R ₀ JC 0.8			°C/W	
Symbol	Min	Тур	Max	Unit	
v _E '				Volts	
ŀ	-	1.10	1.18		
1		0.95	1.00		
¹B				mA	
	-	0.05	0.2		
	-	1.0	2.0		
	Symbol VF	Symbol Min	R _{0.JC} 0.8	Symbol Min Typ Max	

MECHANICAL CHARACTERISTICS

CASE: Welded hermetically sealed construction

FINISH: All external surfaces corrosion resistant, terminals readily solerable

WEIGHT: 9 grams (approx.)

POLARITY: Cathode connected to case (reverse polarity available denoted

by Suffix R, i.e.: MR5030R)

MOUNTING POSITION: Any





