

New Jersey Semi-Conductor Products, Inc.

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1N5059 THRU 1N5062

MINIATURE GLASS PASSIVATED SILICON RECTIFIER
Voltage - 200 to 800 Volts Current - 1.0 Ampere

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

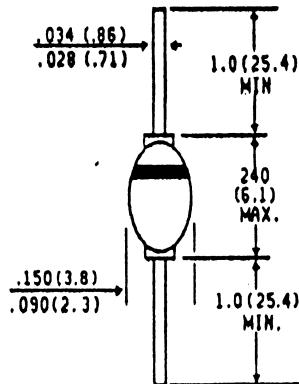
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	SYMBOLS	1N5059	1N5060	1N5061	1N5062	UNITS
*Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	400	600	800	Volts
Maximum RMS Voltage	V _{RMS}	140	280	420	560	Volts
*Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	Volts
*Maximum Average Forward Rectified Current .375", (9.5mm) Lead Lengths at T _A = 75°C	I _(AV)			1.0		Amps
*Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}		50.0			Amps
*Maximum Instantaneous Forward Voltage at 1.0A	V _F		1.2			Volts
*Maximum Full Load Reverse Current, Full Cycle Average .375", (9.5mm) Lead Lengths at T _A = 25°C T _A = 75°C	I _{R(AV)}		5.0			
		150		100		μA
*Maximum DC Reverse Current at Rated DC Blocking Voltage T _A = 25°C T _A = 175°C	I _R		5.0			
		300		200		μA
Typical Reverse Recovery Time (Note 1)	T _{RR}		2.0			μs
Typical Junction Capacitance (Note 2)	C _J		15.0			pF
Typical Thermal Resistance (Note 3)	R _{θJA}		40.0			°C/W
*Operating and Storage Temperature Range	T _{J,TSTG}		-65 to +175			°C

NOTES:

1. Reverse Recovery Test Conditions : I_F = 0.5A, I_R = 1.0A, I_{RR} = .25A
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. Thermal Resistance from Junction to Ambient at .375" (9.5mm) Lead Lengths, P.C. Board Mounted.

*JEDEC Registered Values



Dimensions in inches
and
(millimeters)



Quality Semi-Conductors