

1N5059 THRU 1N5062

GLASS PASSIVATED RECTIFIER  
1.0 AMPS, 200-800 VOLTS

DESCRIPTION

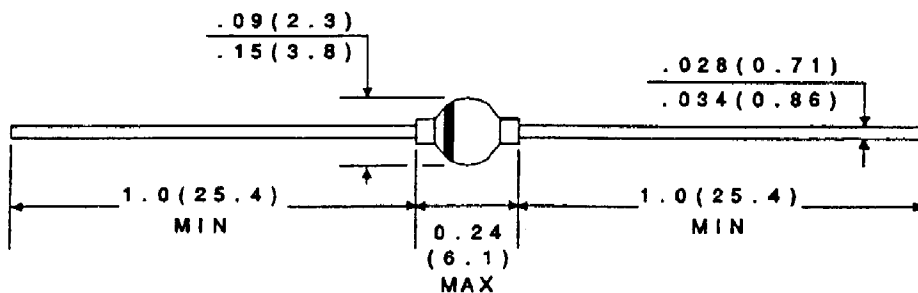
1N5059 series types are silicon rectifiers manufactured in a hermetically sealed, glass passivated package designed for general purpose applications where high reliability is desired.

MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ )

	<u>SYMBOL</u>	<u>1N5059</u>	<u>1N5060</u>	<u>1N5061</u>	<u>1N5062</u>	<u>UNITS</u>
Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	V
DC Blocking Voltage	$V_R$	200	400	600	800	V
RMS Voltage	$V_{RMS}$	140	280	420	560	V
Average Forward Current ( $T_A = 75^\circ\text{C}$ )	$I_O$		1.0			A
Peak Forward Surge Current (8.3ms single half sine-wave on rated load)	$I_{FSM}$		50			A
Operating and Storage Junction Temperature	$T_J, T_{stg}$		-65 to +175			$^\circ\text{C}$
Thermal Resistance	$\theta_{JA}$		40			$^\circ\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNITS</u>
$I_R$	$V_R = \text{Rated } V_{RRM}$		5.0	$\mu\text{A}$
$I_R$	$V_R = \text{Rated } V_{RRM}, T_A = 175^\circ\text{C}$ (1N5059, 1N5060)		300	$\mu\text{A}$
$I_R$	$V_R = \text{Rated } V_{RRM}, T_A = 175^\circ\text{C}$ (1N5061, 1N5062)		200	$\mu\text{A}$
$V_F$	$I_F = 1.0\text{A}$		1.2	V
$C_J$	$V_R = 4.0\text{V}, f = 1\text{MHz}$		15	pF
$t_{rr}$	$I_R = 1.0\text{A}, I_F = 0.5\text{A}, R_L = 100\Omega, \text{Rec. to } 0.25\text{A}$		4.0	ns



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