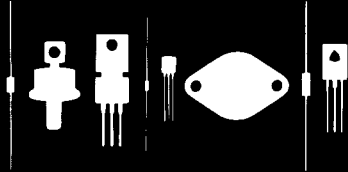


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 145 Adams Avenue
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1N659
1N660
1N661

SILICON DIODE
JEDEC DO-35 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N659 series types are silicon diodes designed for general purpose medium speed switching applications.

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

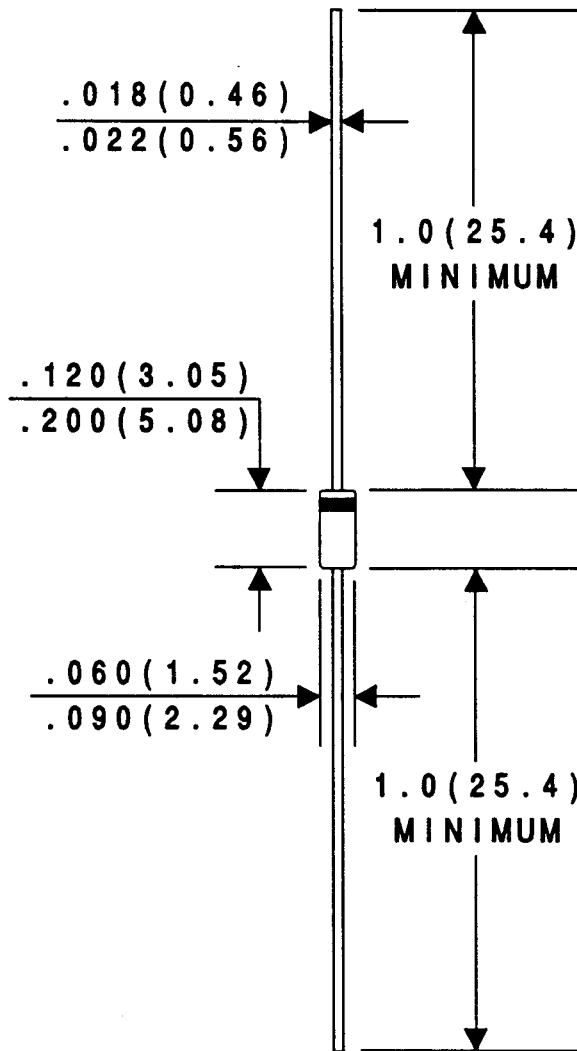
	<u>SYMBOL</u>	<u>1N659</u>	<u>1N660</u>	<u>1N661</u>	<u>UNITS</u>
Peak Working Reverse Voltage	V_{RWM}	50	100	200	V
Average Forward Current	I_O		200		mA
Forward Steady-State Current	I_F		500		mA
Peak Forward Surge Current					
Pulse Width = 1.0 μ s	I_{FSM}		4.0		A
Pulse Width = 1.0s	I_{FSM}		1.0		A
Power Dissipation	P_D		500		mW
Operating and Storage					
Junction Temperature	T_J, T_{stg}		-65 to +200		$^\circ\text{C}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>1N659</u>		<u>1N660</u>		<u>1N661</u>		<u>UNITS</u>
		<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	
BV_R	$I_R = 100\mu\text{A}$	60		120		240		V
I_R	$V_R = \text{Rated } V_{RWM}$		5.0		5.0		10	μA
I_R	$V_R = \text{Rated } V_{RWM}, T_A = 100^\circ\text{C}$		25		50		100	μA
V_F	$I_F = 6.0\text{mA}$		1.0		1.0		1.0	V
t_{rr}	$V_R = 35\text{V}, I_F = 30\text{mA}, C_L = 10\text{pF}$ $R_L = 2.0\text{k}\Omega, \text{Recovery to } 400\text{K}\Omega$		300		300		300	ns

(OVER)

JEDEC DO-35 - MECHANICAL DIMENSIONS



ALL DIMENSIONS IN INCHES (mm).

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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