

1N91  
1N92  
1N93

**GERMANIUM RECTIFIERS**



**DO-1 CASE**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 1N91 series is a low-current germanium rectifier, mounted in an axial lead metal case, for applications requiring high efficiency and extremely low voltage drop.

**MARKING: FULL PART NUMBER**

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

	<b>SYMBOL</b>	<b>1N91</b>	<b>1N92</b>	<b>1N93</b>	<b>UNITS</b>
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	200	300	V
DC Blocking Voltage	$V_R$	100	200	300	V
Average Forward Current ( $T_A=55^\circ\text{C}$ )	$I_O$		150		mA
Non-repetitive Peak Forward Surge Current	$I_{FSM}$		25		A
Operating Junction Temperature	$T_J$		-65 to +95		$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-65 to +105		$^\circ\text{C}$

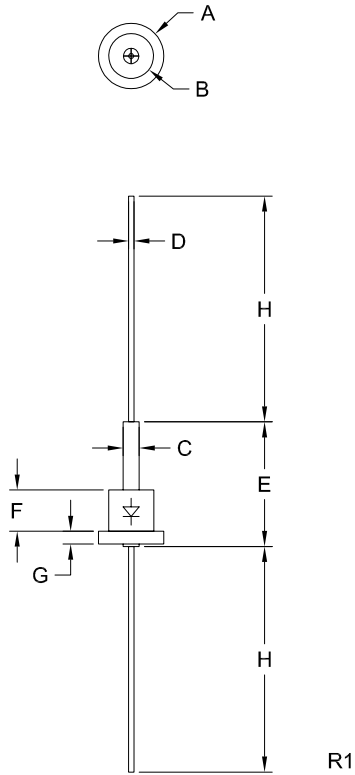
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>MIN</b>	<b>MAX</b>	<b>UNITS</b>
$I_R$	$V_R=\text{Rated } V_{RRM}$		220	$\mu\text{A}$
$V_F$	$I_F=150\text{mA}$		450	mV

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**DO-1 CASE - MECHANICAL OUTLINE**



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.360	0.400	9.14	10.16
B (DIA)	0.245	0.280	6.22	7.11
C (DIA)	-	0.125	-	3.18
D (DIA)	0.027	0.035	0.69	0.89
E	-	0.725	-	18.42
F	0.220	0.260	5.59	6.60
G	-	0.075	-	1.91
H	1.000	1.625	25.40	41.28

DO-1 (REV: R1)

R1 (30-April 2014)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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