



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1N4148

SILICON SWITCHING DIODE

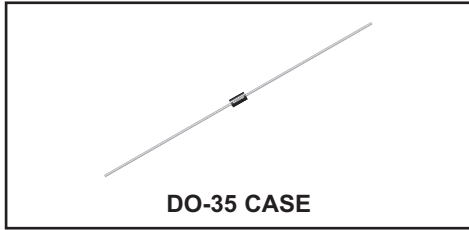


www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N4148 is a high speed switching diode manufactured in a DO-35 hermetically sealed glass case. The 1N4148 is a drop in replacement for the 1N914.

MARKING: FULL PART NUMBER



DO-35 CASE

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

Peak Repetitive Reverse Voltage
Peak Working Reverse Voltage
Average Forward Current
DC Forward Current
Peak Forward Surge Current, $t_p=1.0\mu\text{s}$
Power Dissipation
Operating and Storage Junction Temperature

SYMBOL

V_{RRM} 100
 V_{RWM} 75
 I_O 150
 I_F 200
 I_{FSM} 2.0
 P_D 500
 T_J, T_{stg} -65 to +200

UNITS

V
V
mA
mA
A
mW
 $^\circ\text{C}$

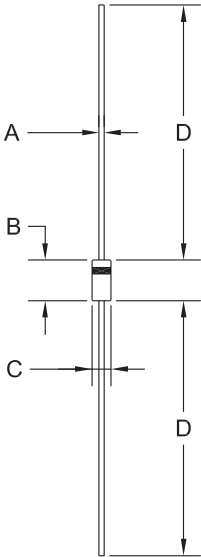
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=20\text{V}$		25	nA
BV_R	$I_R=1.0\text{mA}$	100		V
BV_R	$I_R=100\mu\text{A}$	75		V
V_F	$I_F=10\text{mA}$		1.0	V
C_J	$V_R=0, f=1.0\text{MHz}$		4.0	pF
t_{rr}	$V_R=6.0\text{V}, I_F=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$		4.0	ns

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DO-35 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.018	0.022	0.46	0.56
B	0.120	0.200	3.05	5.08
C	0.060	0.090	1.52	2.29
D	1.000	-	25.40	-

DO-35 (REV: R1)

R1

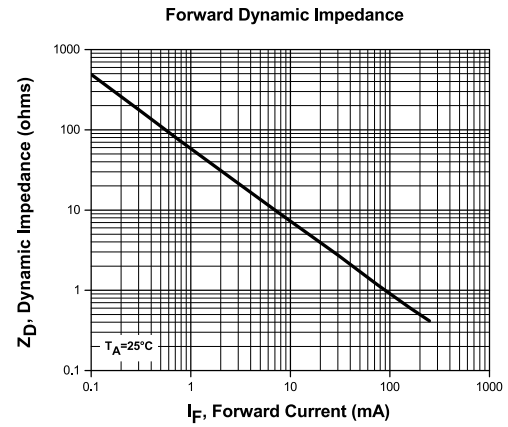
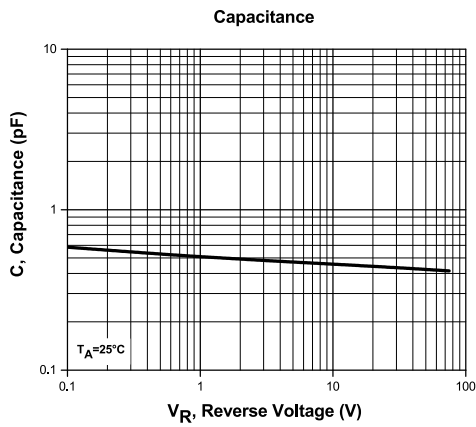
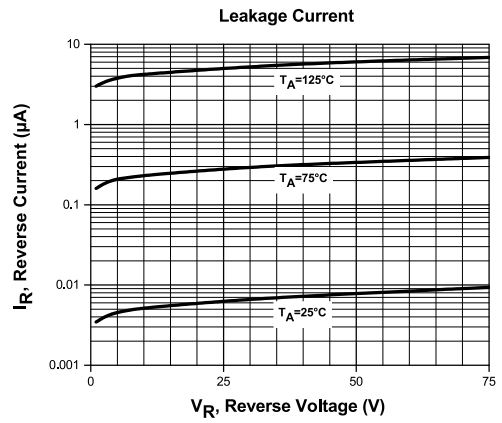
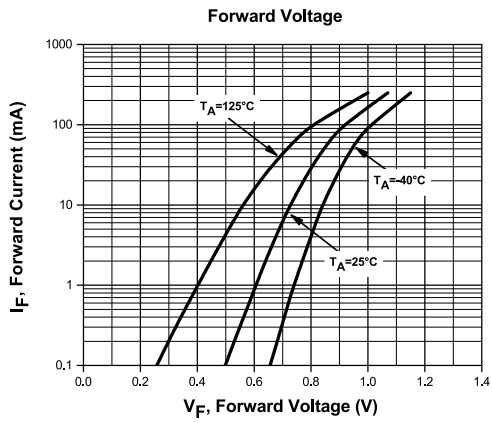
R1 (23-November 2015)

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SILICON SWITCHING DIODE



TYPICAL ELECTRICAL CHARACTERISTICS

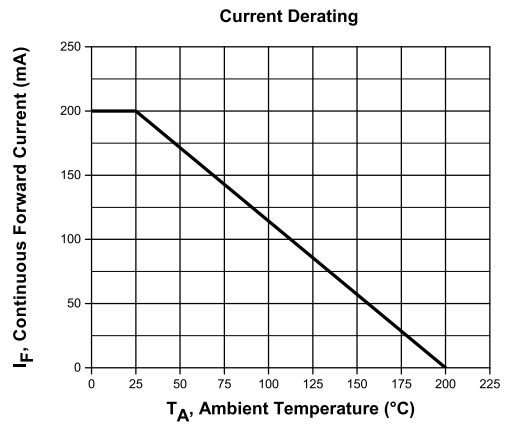
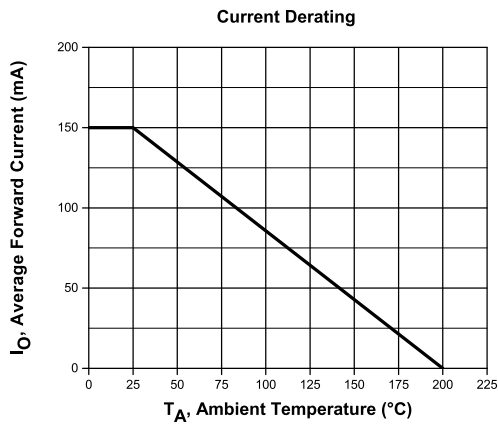
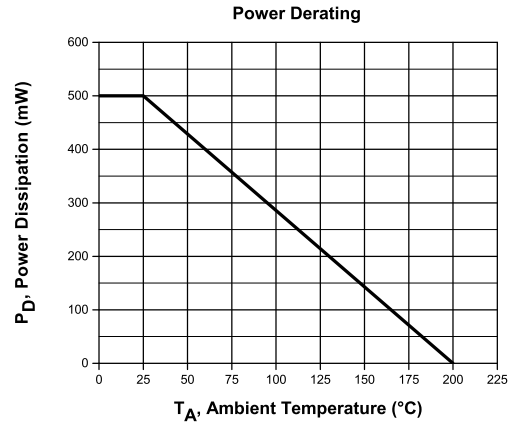
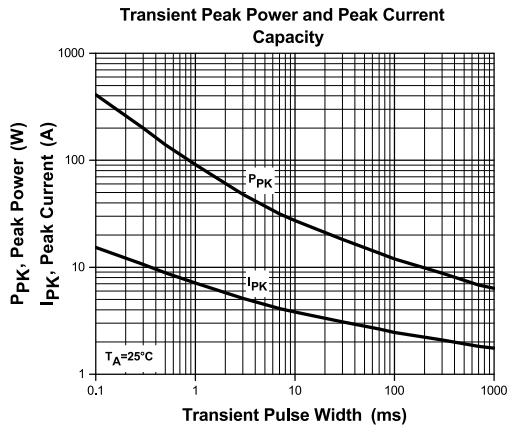


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SILICON SWITCHING DIODE



TYPICAL ELECTRICAL CHARACTERISTICS



R1 (23-November 2015)

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)
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- 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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