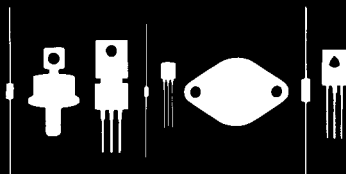


**Central
Semiconductor Corp.**
**Central
Semiconductor Corp.**
**Central™
Semiconductor Corp.**

145 Adams Avenue
Hauppauge, New York 11788



1N4151 THRU 1N4154

SILICON SWITCHING DIODE

JEDEC DO-35 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4151 Series types are Hermetically Sealed Silicon Diodes designed for fast switching applications.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL	1N4151	1N4152	1N4153	1N4154	UNIT
Peak Repetitive Reverse Voltage	V _{RRM}	75	40	75	35	V
Peak Working Reverse Voltage	V _{RWM}	50	30	50	25	V
Average Forward Current	I _O	150	150	150	150	mA
Peak Forward Surge Current	I _{FSM}	1000	1000	1000	1000	mA
Power Dissipation	P _D	500	500	500	500	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 TO +200				°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	1N4151		1N4152		1N4153		1N4154		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
BV _R	I _R =5.0uA	75		40		75		35		V
I _R	V _R =Rated		0.05		0.05		0.05		0.1	uA
I _R	V _R =Rated V _{RWM} , T _A =150°C		50		50		50		100	uA
V _F	I _F =0.1mA			0.49	0.55	0.49	0.55			V
V _F	I _F =0.25mA			0.53	0.59	0.53	0.59			V
V _F	I _F =1.0mA			0.59	0.67	0.59	0.67			V
V _F	I _F =2.0mA			0.62	0.70	0.62	0.70			V
V _F	I _F =10mA			0.70	0.81	0.70	0.81			V
V _F	I _F =20mA			0.74	0.88	0.74	0.88			V
V _F	I _F =30mA								1.0	V
V _F	I _F =50mA		1.0							V
C _T	V _R =0, f=1.0MHz		2.0		2.0		2.0		4.0	pF
t _{rr}	I _F =10mA, I _{RM} =10mA, i _{rr} =1.0mA, R _L =100Ω		4.0		4.0		4.0		4.0	ns
t _{rr}	I _F =10mA, I _{RM} =6mA, i _{rr} =1.0mA, R _L =100Ω		2.0		2.0		2.0		2.0	ns

**Central™
Semiconductor Corp.**

145 Adams Avenue
Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824
www.centalsemi.com

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

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms