

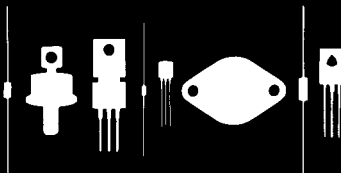
Central Semiconductor Corp.  
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145 Adams Avenue  
 Hauppauge, New York 11788



1N4151 THRU 1N4154

SILICON SWITCHING DIODE

JEDEC DO-35 CASE

zakazplat.ru

DESCRIPTION

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

MAXIMUM RATINGS (T<sub>A</sub>=25°C)

	SYMBOL	1N4151	1N4152	1N4153	1N4154	UNIT
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	75	40	75	35	V
Peak Working Reverse Voltage	V <sub>RWM</sub>	50	30	50	25	V
Average Forward Current	I <sub>O</sub>	150	150	150	150	mA
Peak Forward Surge Current	I <sub>FSM</sub>	1000	1000	1000	1000	mA
Power Dissipation	P <sub>D</sub>	500	500	500	500	mW
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 TO +200				°C

ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

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

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