

Shanghai Shanglang Electronic
Technology Co.,Ltd
Tel:0086-21-37185008
Fax:0086-21-57152769

1N4151
1N4154

Features

- Planar Passivated
- Metallurgically bonded Construction
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant.)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +200°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

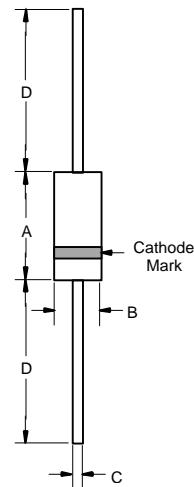
Reverse Voltage 1N4151 1N4154	V _R	50V 25V	
Peak Reverse Voltage 1N4151 1N4154	V _{RM}	75V 35V	
Average Rectifierd Current	I _o	150mA	Resistive Load f>=50Hz
Power Dissipation	P _{TOT}	500mW	
Junction Temperature	T _J	200°C	
Peak Forward Surge Current 1N4151 1N4154	I _{FSM}	50mA 30mA	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _F =30mA T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage 1N4151 1N4154	I _R	0.05uA 0.1uA	T _A =25°C V _{R1} =50V V _{R2} =25V
Typical Junction Capacitance 1N4151 1N4154	C _J	2.0pF 4.0pF	Measured at 1.0MHz, V _R =4.0V
Maximum Reverse Recovery Time	T _{rr}	2.0nS	I _F =10mA V _R =6V R _L =100ohm

*Pulse test: Pulse width 300 sec, Duty cycle 2%

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

**500mW Silicon
Switching Diode**

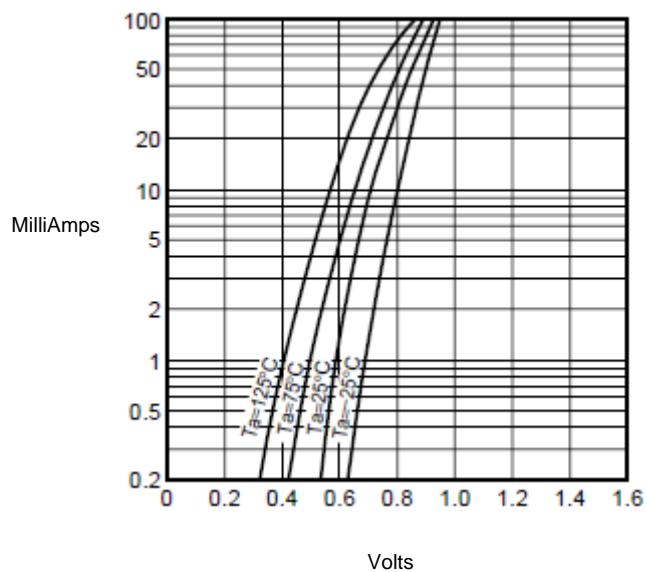
DO-35



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	-----	0.166	-----	4.20	
B	-----	0.079	-----	2.00	
C	-----	0.020	-----	0.52	
D	1.000	-----	25.40	-----	

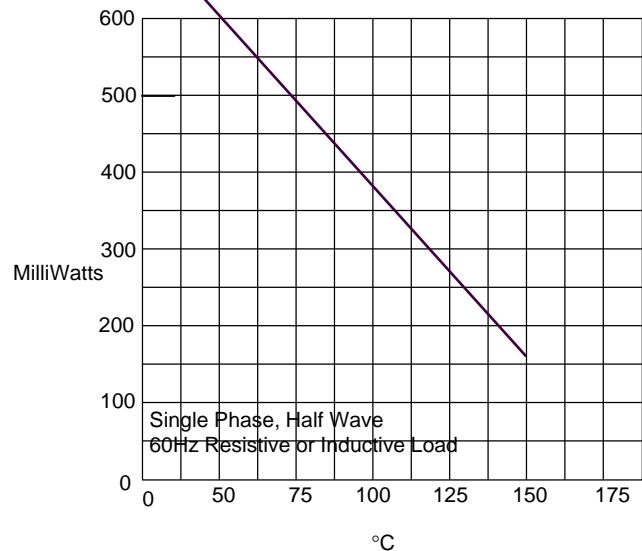
1N4151 thru 1N4154

Figure 1
Typical Forward Characteristics



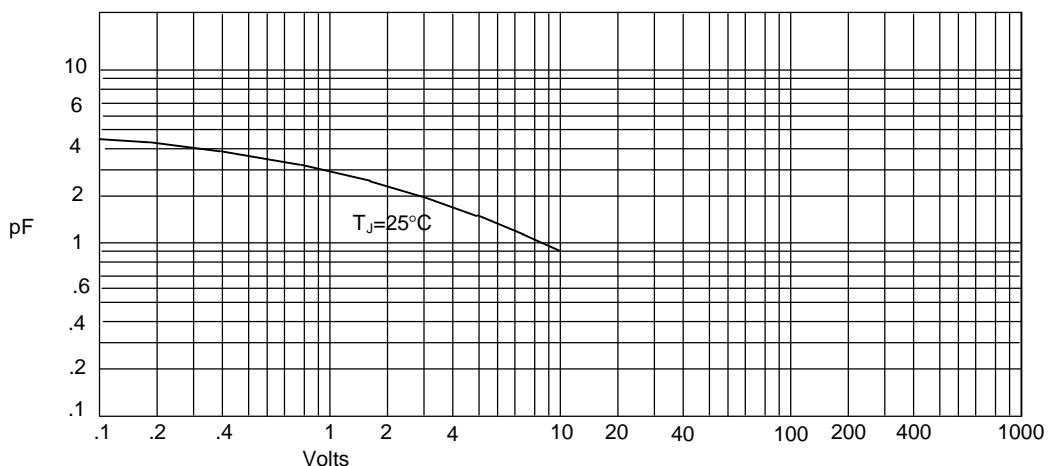
Instantaneous Forward Current - MilliAmperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Admissible Power Dissipation - MilliWattsversus
Ambient Temperature - °C

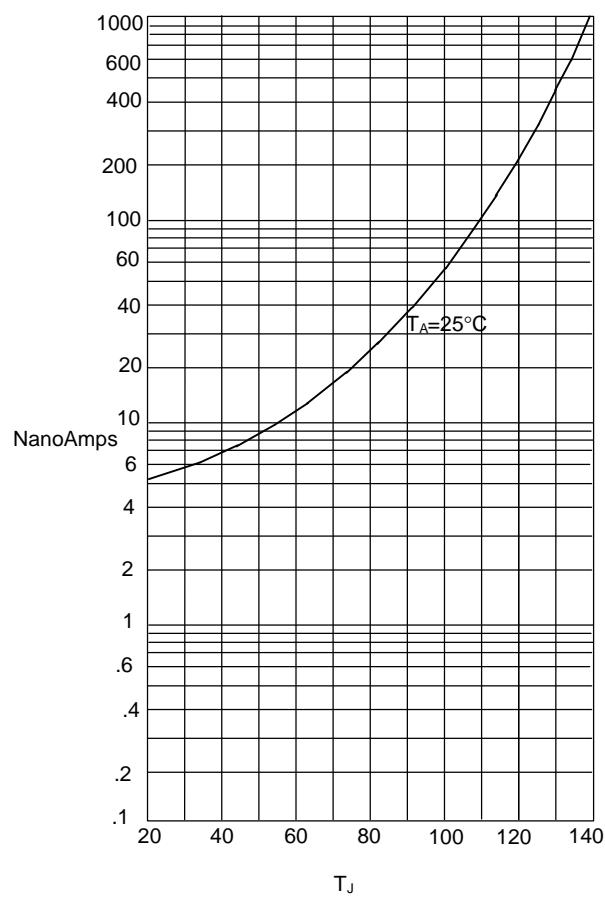
Figure 3
Junction Capacitance



Junction Capacitance - pFversus
Reverse Voltage - Volts

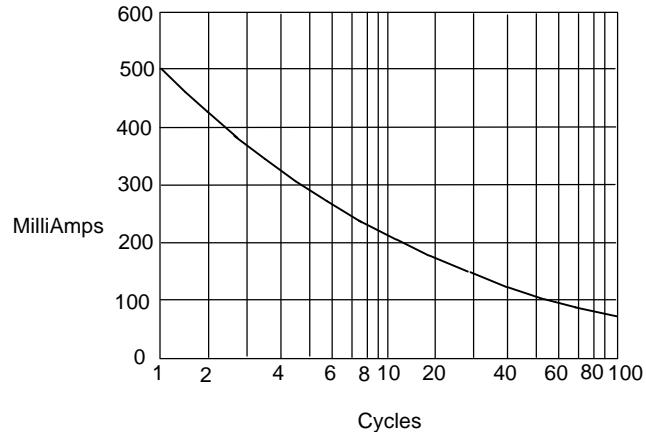
1N4151 thru 1N4154

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperesversus
Junction Temperature - °C

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperesversus
Number Of Cycles At 60Hz - Cycles