

**Obsolete**



Micro Commercial Components



Micro Commercial Components  
21201 Itasca Street Chatsworth  
CA 91311  
Phone: (818) 701-4933  
Fax: (818) 701-4939

**1N4151**  
**1N4154**

**500mW Silicon**  
**Switching Diode**

### Features

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

### 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 Rectifier Current	$I_o$	150mA	Resistive Load $f \geq 50\text{Hz}$
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	$I_F = 30\text{mA}$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage 1N4151 1N4154	$I_R$	0.05µA 0.1µA	$T_A = 25^\circ\text{C}$ $V_{R1} = 50\text{V}$ $V_{R2} = 25\text{V}$
Typical Junction Capacitance 1N4151 1N4154	$C_J$	2.0pF 4.0pF	Measured at 1.0MHz, $V_R = 4.0\text{V}$
Maximum Reverse Recovery Time	$T_{rr}$	2.0nS	$I_F = 10\text{mA}$ $V_R = 6\text{V}$ $R_L = 100\text{ohm}$

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

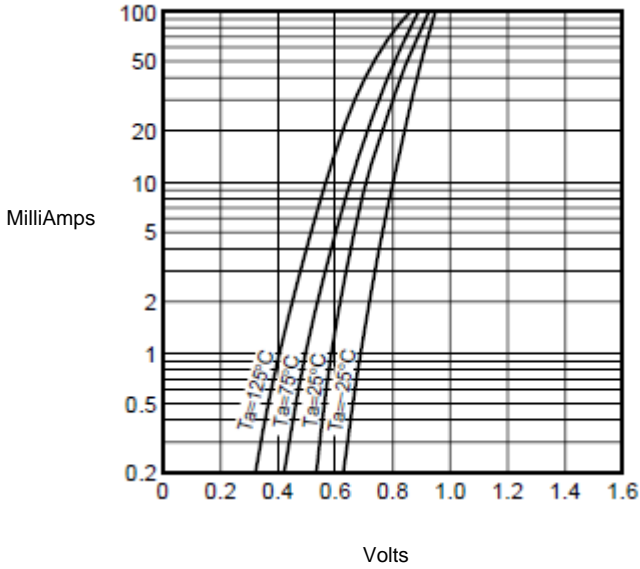
Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

DO-35

DIMENSIONS					NOTE
DIM	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	-----	

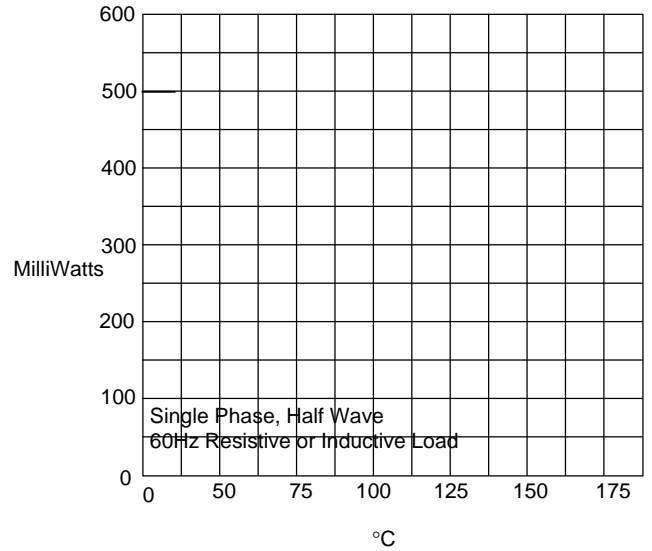
1N4151 thru 1N4154

Figure 1  
Typical Forward Characteristics



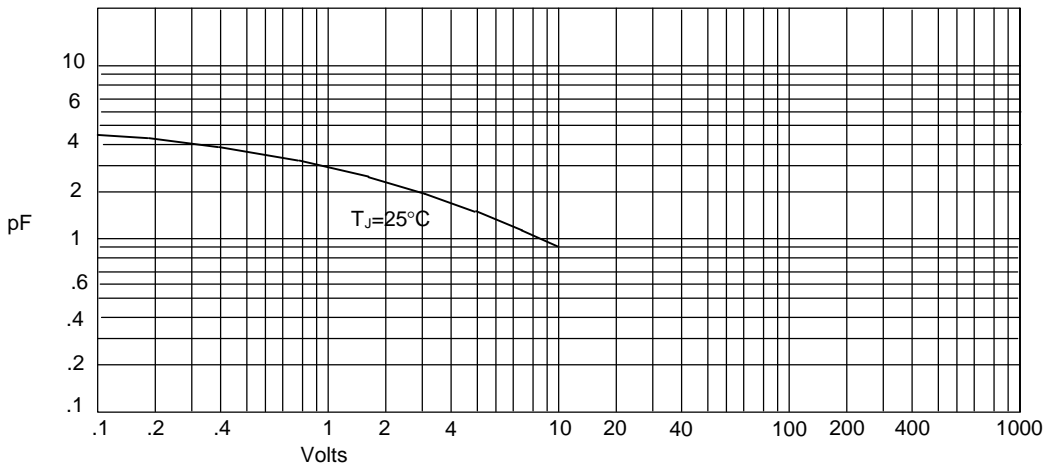
Instantaneous Forward Current - MilliAmperes versus Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



Admissible Power Dissipation - MilliWatts versus Ambient Temperature - °C

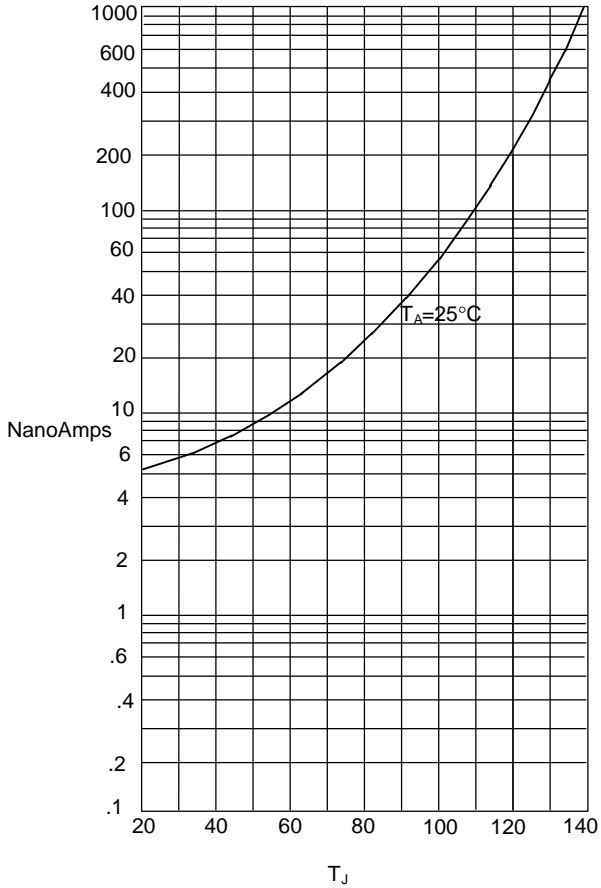
Figure 3  
Junction Capacitance



Junction Capacitance - pF versus Reverse Voltage - Volts

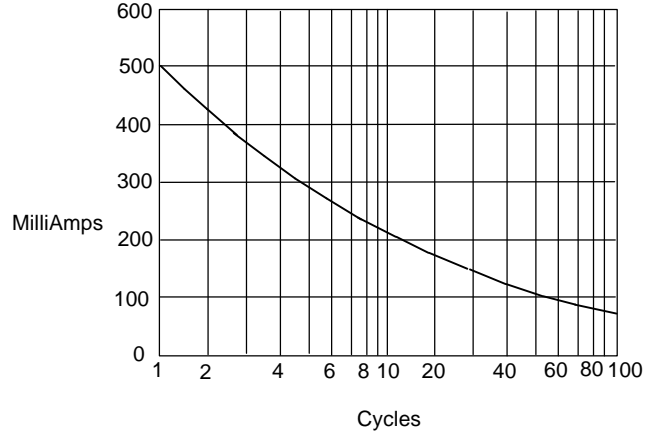
1N4151 thru 1N4154

Figure 4  
 Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperes versus Junction Temperature - °C

Figure 5  
 Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles



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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/AmmoBox
Part Number-BP	Bulk: 100Kpcs/Carton

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