

ROHS

Micro Commercial Components 21201 Itasca Street Chatsworth CA 91311

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1N4151 1N4154

Features

- Planar Passivated
- Metallurgically bonded Construction
- Moisture Sensitivity Level 1

Maximum Ratings

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

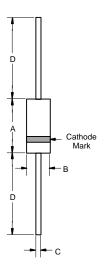
Electrical Characteristics @ 25°C Unless Otherwise Specified

Erooti roar orial actorit)(105 ° 2	0 0 011103	s offici wise specified	
Reverse Voltage				
1N4151	V_R	50V		
1N4154		25 V		
Peak Reverse				
Voltage	V_{RM}			
1N4151	Y RM	75 V		
1N4154		35 V		
Average	lo	150mA	Resistive Load	
Rectifierd Current	10	10011171	f>=50Hz	
Power Dissipation	Ртот	500mW		
Junction	TJ	200°C		
Temperature	• 1	200 C		
Peak Forward				
Surge Current	I _{FSM}		8.3ms,half sine	
1N4151	'F S M	50mA		
1N4154		30mA		
Maximum	.,,		$I_F = 30 \mathrm{mA}$	
Instantaneous	V _F	1.0V	T_=25°C*	
Forward Voltage			. j	
Maximum DC Reverse Current				
At Rated DC				
	l _R		T _A =25°C	
Blocking Voltage 1N4151		0.05uA	V _{R1} =50V	
1N4151 1N4154			V _{R2} =25V	
Typical Junction			11.2	
Capacitance			Measured at	
1N4151	С	2.0pF	1.0MHz,V _R =4.0V	
1N4154		4.0pF	, к	
Maximum			$I_F = 10 \mathrm{mA}$	
Reverse	T_{rr}	2.0nS	$V_R = 6V$	
Recovery Time			R _L =100ohm	

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

500mW Silicon Switching Diode





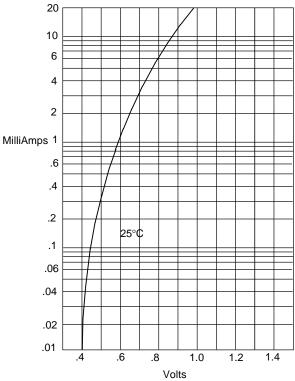
DIMENSIONS						
DIM	INCHES		ММ		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α		0.166		4.20		
В		0.079		2.00		
С		0.020		0.52		
D	1.000		25.40			

1N4151 thru 1N4154

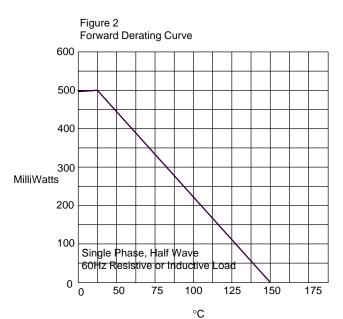
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Figure 1
Typical Forward Characteristics

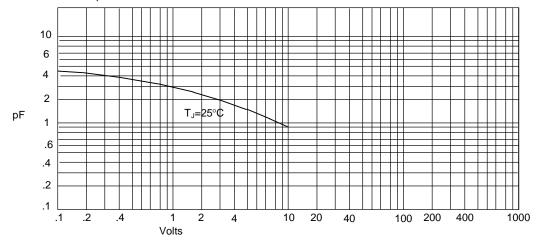


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Admissable Power Dissipation - MilliWattsversus Ambient Temperature - $^{\circ}C$

Figure 3
Junction Capacitance



Junction Capacitance - pF*versus* Reverse Voltage - Volts

1N4151 thru 1N4154



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Figure 4
Typical Reverse Characteristics

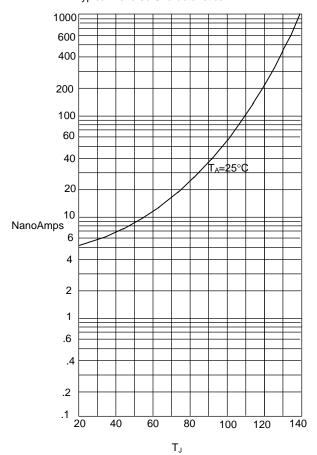


Figure 5
Peak Forward Surge Current

600

400

300

100

1 2 4 6 8 10 20 40 60 80 100

Cycles

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

Instantaneous Reverse Leakage Current - NanoAmperesversus Junction Temperature - $^{\circ}C$



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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