

MCC

Micro Commercial Components



Micro Commercial Components
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1N4151
1N4154

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

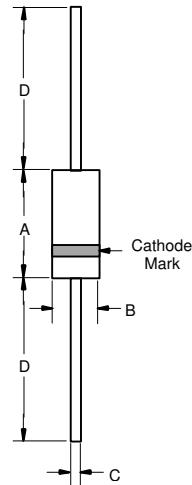
Reverse Voltage 1N4151 1N4154	V_R	50V 25V	
Peak Reverse Voltage 1N4151 1N4154	V_{RM}	75V 35V	
Average Rectified Current	I_o	150mA	Resistive Load $f \geq 50\text{Hz}$
Power Dissipation	P_{TOT}	500 mW	
Junction Temperature	T_J	200°C	
Peak Forward Surge Current 1N4151 1N4154	I_{FSM}	50mA 30mA	8.3ms, half 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	0.05uA 0.1uA	$T_A = 25^\circ\text{C}$ $V_{R1} = 50\text{V}$ $V_{R2} = 25\text{V}$
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.

500mW Silicon Switching Diode

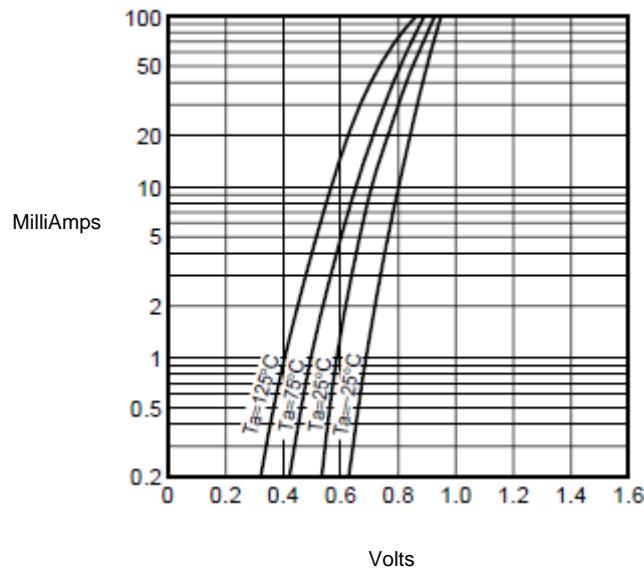
DO-35



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

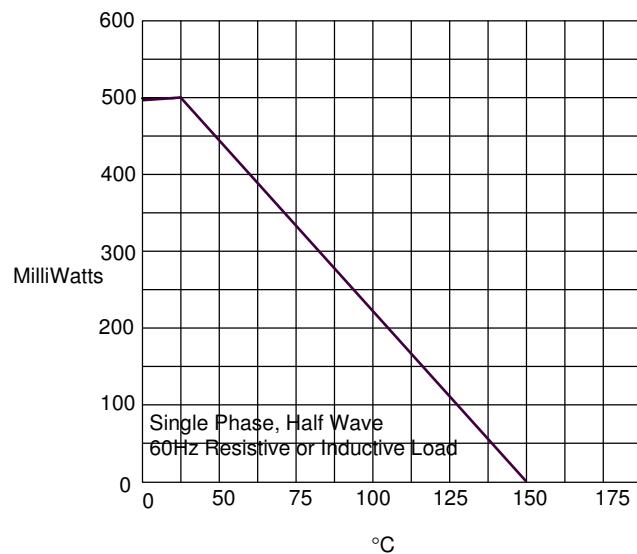
www.mccsemi.com

Figure 1
Typical Forward Characteristics



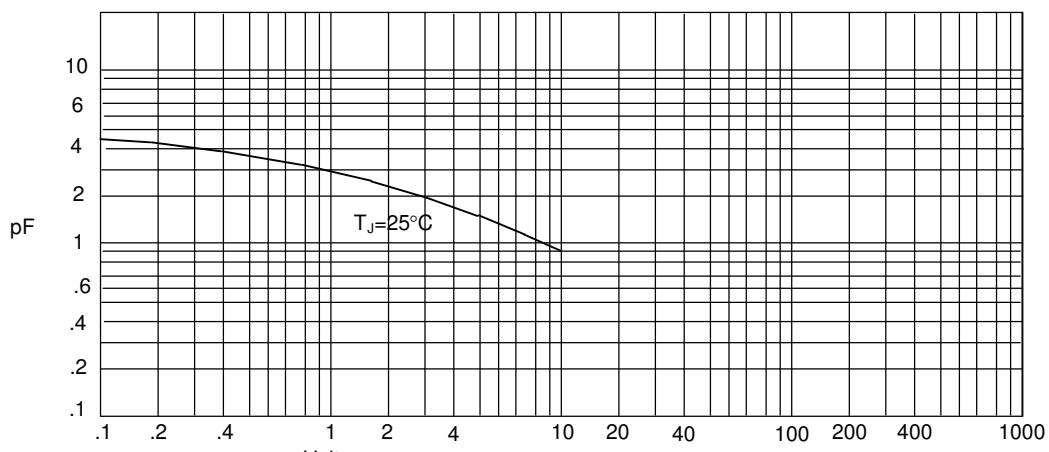
Instantaneous Forward Current - MilliAmperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



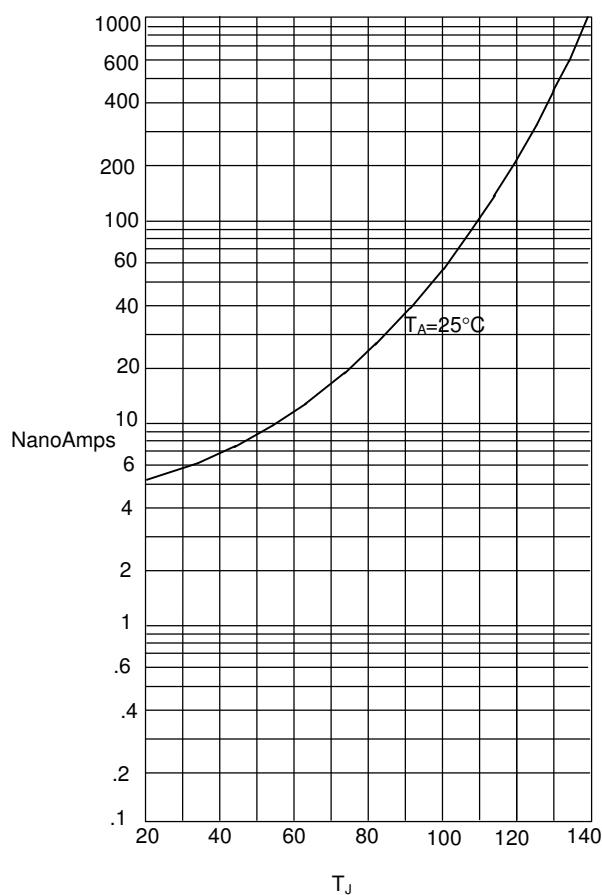
Admissible Power Dissipation - MilliWatts versus
Ambient Temperature - $^\circ\text{C}$

Figure 3
Junction Capacitance



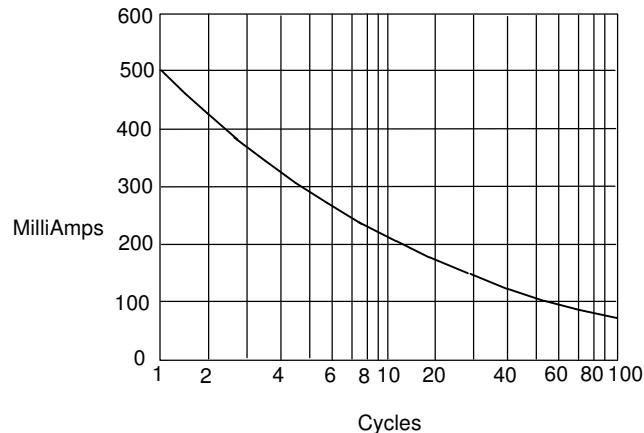
Junction Capacitance - pF versus
Reverse Voltage - Volts

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

Ordering Information :

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

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