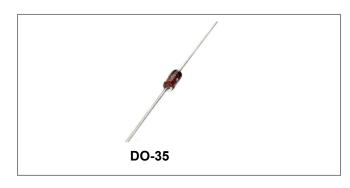






1N4150 FAST SWITCHING DIODE



Features

- Fast Switching Speed
- Glass Package Version for High Reliability
- High Conductance
- Available in Both Through-Hole and Surface Mount Versions
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

Case: DO-35

Terminals: Plated leads Solderable per MIL-STD-202,

Method 208

Polarity: Cathode band
Weight: DO-35 0.13 grams
Marking: Cathode band

Maximum Ratings@TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	75	V
Forward Current(Note 1)	I _F	600	mA
Rectified Current(Average), Half Wave Rectification with Resistive Load and f≥50MHz (Note 1)	Io	200	mA
Power Dissipation(Note 1) Derate Above 25°C	P_D	500	mW
Typical Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	300	°C/W
Junction and Storage Temperature Range	T _J , T _{STG}	-65 to +200	°C

Note: 1. Diode on Ceramic substrate 10×8×0.7mm





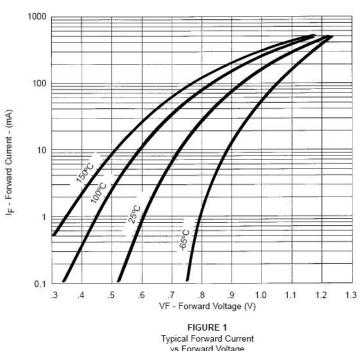


Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Units	Test Condition
Forward Voltage*	V _{FM}	-	1.0	V	@I _F =200mA
Peak Reverse Current*	I _{RM}	-	0.1	uA	@V _R =50V
Capacitance	Ст	-	4	pF	V _R =0V, f=1.0MHz
Reverse Recovery Time	t _{rr}	-	4	ns	I_F =10mA to I_R =1.0mA, V_R =6V, R_L =100 Ω

 $^{^*}$ Pulse width < 300 μ s, duty cycle < 2%

Ratings and Characteristics Curves





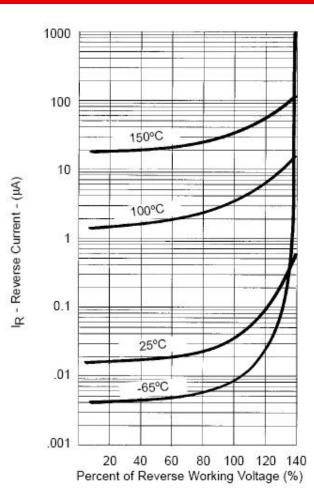


FIGURE 2 Typical Reverse Current vs Reverse Voltage

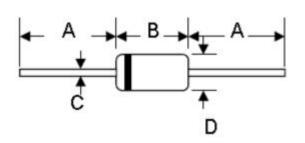
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •







Mechanical Dimensions DO-35



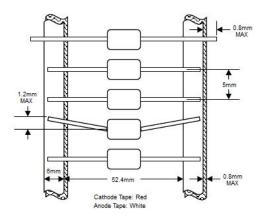
SYMBOL	Millimeters		Inches		
STIMBUL	Min.	Max.	Min.	Max.	
А	25.40	-	1.000	-	
В	-	4.00	-	0.157	
С	-	0.60	-	0.024	
D	-	2.00	-	0.079	

Ordering Information

Device	Package	Shipping	
1N4150	DO-35 (Pb-Free)	5000pcs /tape	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Carrier Tape Specification DO-35









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