

1N4154

HIGH SPEED SWITCHING DIODE

FEATURES :

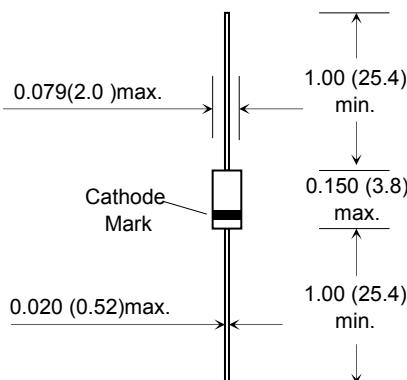
- High switching speed: max. 2 ns
- Reverse voltage: max. 25 V
- Repetitive peak reverse voltage: max. 35 V
- Pb / RoHS Free

MECHANICAL DATA :

Case: DO-35 Glass Case

Weight: approx. 0.13g

**DO - 35 Glass
(DO-204AH)**



Dimensions in inches and (millimeters)

Maximum Ratings and Thermal Characteristics (Ta = 25 °C unless otherwise noted)

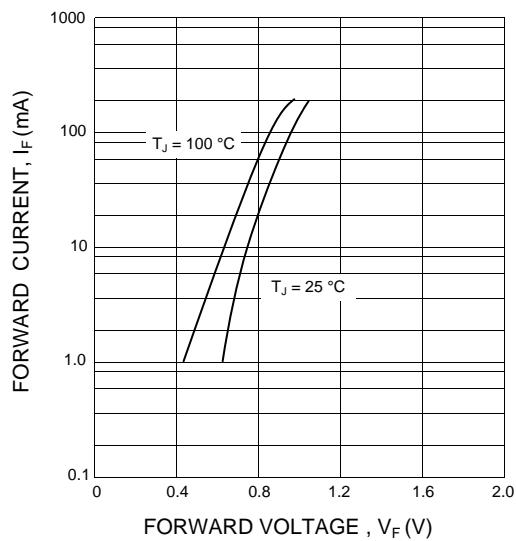
Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	35	V
Maximum Reverse Voltage	V _R	25	V
Maximum Average Forward Current	I _{F(AV)}	150	mA
Maximum Forward Current	I _F	300	mA
Maximum Repetitive Peak Forward Current	I _{FRM}	500	mA
Maximum Peak Forward Surge Current at tp = 1μs	I _{FSM}	2.0	A
Thermal Resistance Junction to Ambient (l = 4mm, T _L = constant)	R _{θJA}	350	K/W
Power Dissipation (l = 4mm, T _L ≤ 25 °C)	P _D	500	mW
Operating Junction Temperature	T _J	175	°C
Storage Temperature Range	T _{STG}	-65 to + 175	°C

Electrical Characteristics (Ta = 25 °C unless otherwise noted)

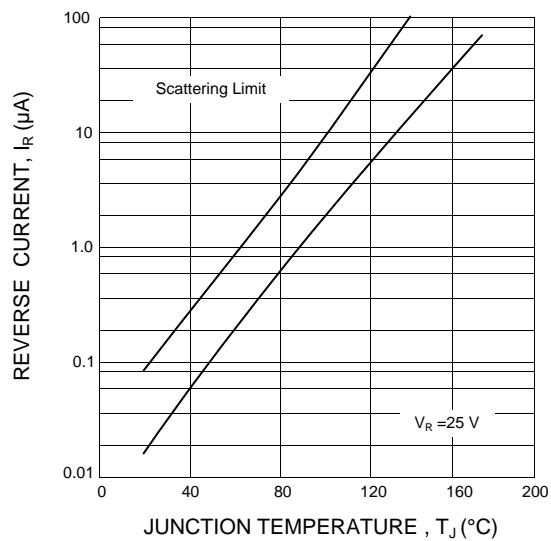
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	I _R	V _R = 25 V V _R = 25 V , Ta = 150 °C	- -	9 -	100 100	nA μA
Forward Voltage	V _F	I _F = 30 mA	-	0.88	1.0	V
Reverse Breakdown Voltage	V _{(BR)R}	I _R = 5 μA , tp/T = 0.01, tp=0.3ms	35	-	-	V
Diode Capacitance	C _d	f = 1MHz ; V _R = 0, V _{HF} = 50mV	-	-	4	pF
Reverse Recovery Time	T _{rr}	I _F = I _R = 10 mA, i _R = 1 mA	-	-	4	ns
		I _F = 10 mA , V _R = 6 V, R _L = 100 Ω, i _R = 0.1 × I _R	-	-	2	ns

RATING AND CHARACTERISTIC CURVES (1N4154)

**FIG1. - FORWARD CURRENT VS.
FORWARD VOLTAGE**



**FIG.2 - REVERSE CURRENT VS.
JUNCTION TEMPERATURE**



**FIG3. - DIODE CAPACITANCE VS.
REVERSE VOLTAGE**

