

150mA Leaded Type Switching Diodes

■ Features

- · Fast switching speed.
- Axial lead type devices for through hole design.
- · Hermetically sealed glass.
- Silicon epitaxial planar chip structruction.
- Lead-free parts meet RoHS requirments

■ Mechanical data

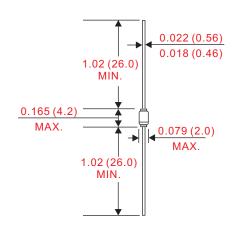
· Case: Glass, DO-35

• Lead : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed

Polarity: Indicated by cathode bandWeight: Approximated 0.12 gram

■ Outline

DO-35



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

CONDITIONS	Symbol	1N4148	UNIT	
	V _{RM}	100	V	
	V_{RRM}	75		
	I _{FM}	300		
	Io	150	mA	
	I _{FM}	2000		
	P _D	500	mW	
	T _J , T _{STG}	-55 ~ +175	°C	
	CONDITIONS	$\begin{array}{c} V_{\text{RM}} \\ V_{\text{RRM}} \\ I_{\text{FM}} \\ I_{\text{O}} \\ I_{\text{FM}} \\ \end{array}$	$\begin{array}{c cccc} V_{RM} & 100 \\ V_{RRM} & 75 \\ I_{FM} & 300 \\ I_{0} & 150 \\ I_{FM} & 2000 \\ P_{D} & 500 \\ \end{array}$	

Parameter	CONDITIONS	Symbol	Min.	Max.	UNIT
Breakdown voltage	I _R = 100uA	BV	100		V
	$I_R = 5uA$	ΒV	75		
Forward voltage	I _F = 10 mA	V _F		1.0	V
Reverse current	V _R = 20 V			25	nA
	V _R = 75 V	I _R		5.0	uA
Diode capacitance	$V_R = 0 V$, $f = 1MHz$	C _D		4.0	pF
Reverse recovery time	$I_F = 10 \text{ mA}, I_R = 1.0 \text{mA}, R_L = 100_{OHM}, I_{RR} = 1 \text{mA}$	t _{rr}		4	ns

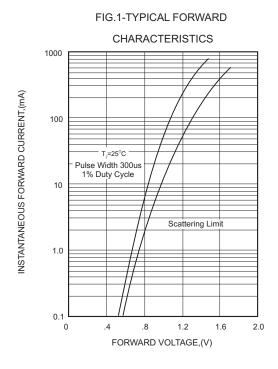
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■ Rating and characteristic curves



CHARACTERISTICS

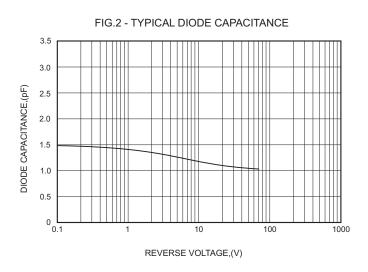
1000

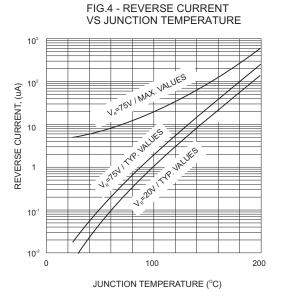
T,=25°C

Scattering Limit

1 10 100

REVERSE VOLTAGE





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