#### 1N4148 SMALL SIGNAL SWITCHING DIODE DO-34(GLASS) DO-35(GLASS) **FEATURES** Silicon epitaxial planar diode Switching diodes 500mw power dissipation 1.0 2(26.0) 1.0 2(26.0) MIN. MIN High temperature soldering guaranteed 250°C/10 seconds,0.375" (9.5mm) lead length, 0.079(2.0) MAX 0.079(2.0) MAX 5 lbs. (2.3kg) tension 0.106 (2.9) MAX 0.165 (4.2) MAX **MECHANICAL DATA** Case: DO-34\DO-35 glass sealed envelope. 1.0 2(26.0) 1.0 2(26.0) Terminals: Plated axial leads, solderable per MIL-STD-750, MIN MIN Method 2026 0.017(0.42) 0.018(0.45) Polarity: Color band denotes cathode end TYP Mounting Position: Any Weight: 0.003 ounce, 0.09 grams(DO-34)

Dimensions in inches and (millimeters)

0.005 ounce, 0.14 grams(DO-35)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	1N4148	UNITS
Maximum repetitive peak reverse voltage	Vrrm	100	VOLTS
Maximum RMS voltage	Vrms	75	VOLTS
Maximum average forward rectified current	l(AV)	150	mAmps
0.375"(9.5mm) lead length at Ta=25℃			
Peak forward surge current			
8.3ms single half sine-wave superimposed on	IFSM	500	mAmps
rated load (JEDEC Method)			
Maximum instantaneous forward voltage at 10mA	Vf	1.0	Volts
Maximum DC reverse current Ta=25℃ Vr=75V	lr	5.0	μΑ
at rated DC blocking voltage Ta=100°C Vr=20V		50	
Maximum reverse recovery time (NOTE 1)	trr	4.0	ns
Typical junction capacitance (NOTE 2)	CJ	4.0	pF
Operating junction and storage temperature range	Тј, Тѕтс	-65 to +200	°C

NOTES:

1.Test condition:IF=10mA,IR=10mA,Irr=1mA,VR=6V,RL=100Ω.

2.Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

## **RATINGS AND CHARACTERISTIC CURVES 1N4148**



### FIG. 5-MAXIMUM PERMISSIBLE NON-REPETITIVE PEAK FORWARD CURRENT AS A FUNCTION OF PULSE DURATION





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