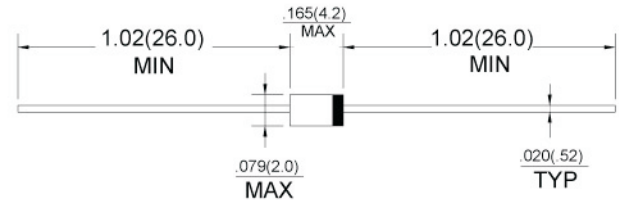


FEATURES

- Surge overload ratings to 2 Amperes peak
- Ideal for printed circuit board
- Glass body
- Terminal : Pure tin plated lead free,
- Mounting position: Any
- Weight: 0.13 gram



DO-35

Dimensions in inches and (millimeters)

MAXIMUM RATINGS & 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%

Parameter	Symbol	1N4148	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	75	V
Forward Repetitive Peak Current	I_{DC}	500	mA
Maximum Average Forward Current	$I_{(AV)}$	150	mA
Peak Forward Surge Current $t_p = 1\mu S$	I_{FSM}	2.0	A
Typical Resistance Junction to Ambient Air (Note 1)	$R_{\theta JA}$	350	K/W
Operating and Storage Temperature Range	T_J, T_{STG}	-65 TO 200	°C

Parameter	Symbol	Min	Max	UNIT
Forward Voltage $I_F = 10mA$	V_F	-	1.00	V
Leakage Current at $V_R = 20V$ at $V_R = 75V$ at $V_R = 20V, T_J = 150^\circ C$	I_R	-	25 5 50	nA μA μA
Reverse Recovery Time (Note 2)	T_{rr}	-	4.0	nS

NOTE: 1. Thermal Resistance Junction to Ambient Air.

2. Reverse Recovery Test Conditions: $I_F = 10mA$, $V_R = 6V$, $I_{rr} = 0.1 \times I_R$, $R_L = 100\Omega$.

RATING & CHARACTERISTIC CURVES

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

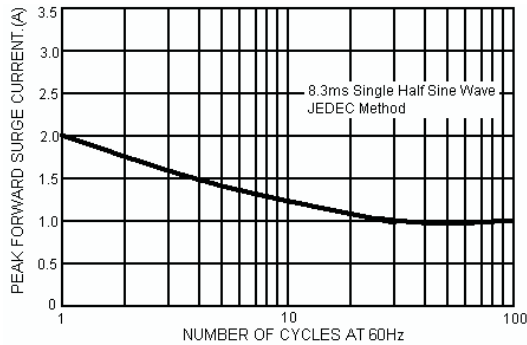


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

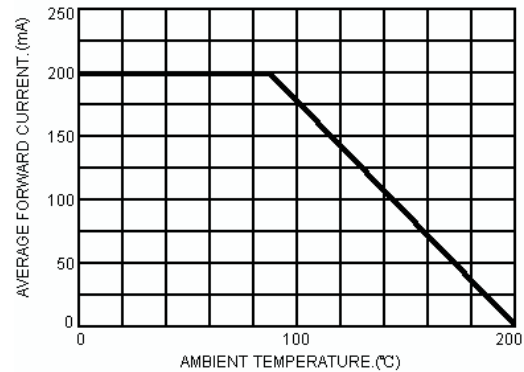


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

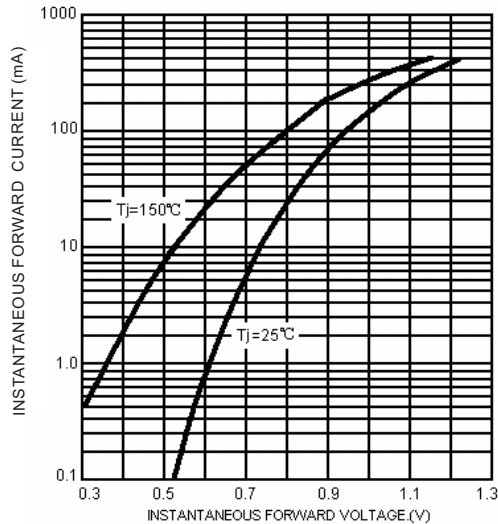


FIG.4-TYPICAL REVERSE CHARACTERISTICS

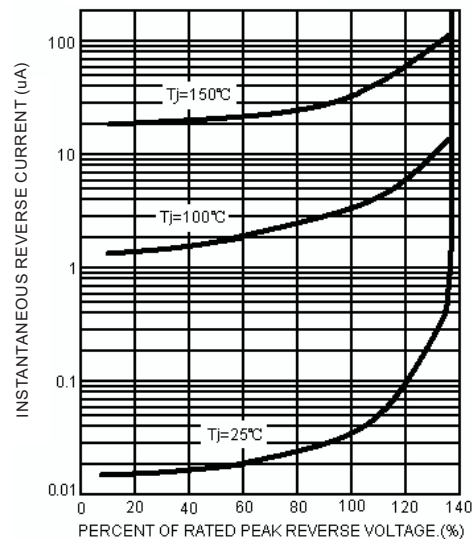


FIG.5-REVERSE RECOVER TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

