

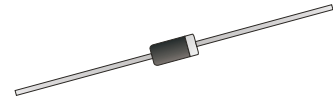


**THE DATASHEET OF
1N4148-G**



1N4148-G

Voltage: 100V
Current: 0.15A
RoHS Device

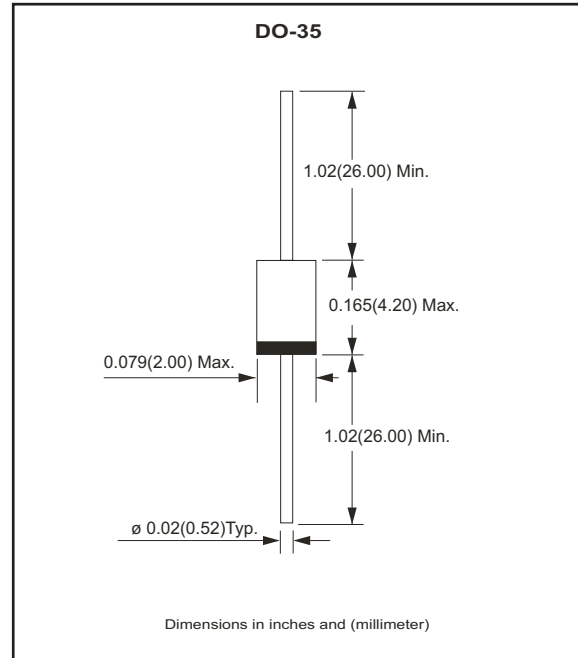


Features

- Surge overload ratings to 2 amperes peak.
- Ideal for printed circuit board.

Mechanical data

- Case: Glass, DO-35
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed.
- Terminal: Pure tin plated lead free.
- Polarity: Indicated by cathode band.
- Mounting Position: Any
- Weight: 0.13gram



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 derate current by 20%.

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

Parameter	Symbol	Min	Typ.	Max	Unit
Forward Voltage at $I_F = 10\text{ mA}$	V_F	-	-	1	V
Leakage Current at $V_R = 20\text{ V}$ at $V_R = 75\text{ V}$ at $V_R = 20\text{ V}, T_J = 150^\circ\text{C}$	I_R	-	-	25	nA
	I_R	-	-	5	uA
	I_R	-	-	50	uA
Reverse Recovery Time(Note 2)	T_{rr}	-	-	4.	ns

NTOES: (1) Thermal Resistance Junction to Ambient Air.

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

RATING AND CHARACTERISTIC CURVES (1N4148-G)

Fig.1 - Maximum Forward Current Derating Curve

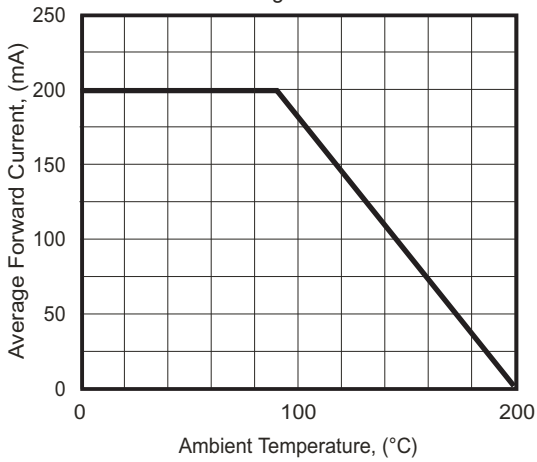


Fig.2 - Maximum Non-Repetitive Forward Surge Current Per Bridge Element

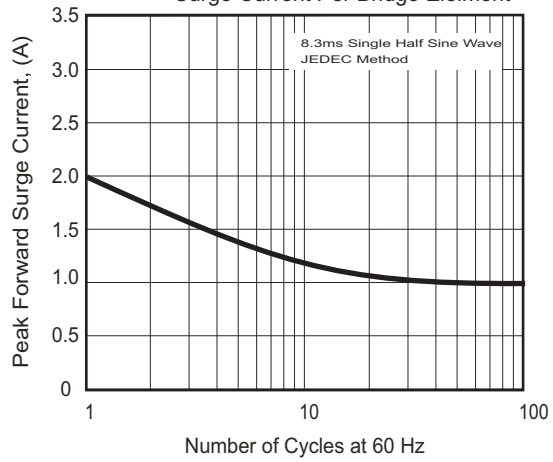


Fig.3 - Typical Instantaneous Forward Characteristics Per Bridge Element

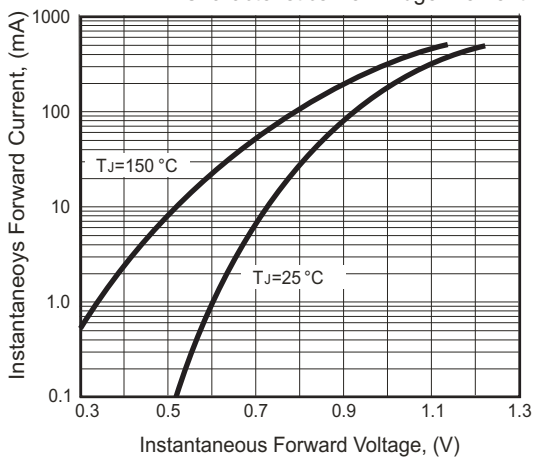


Fig.4 - Typical Reverse Characteristics Per Bridge Element

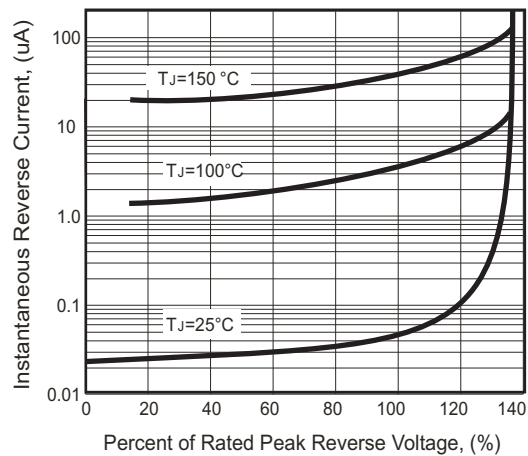
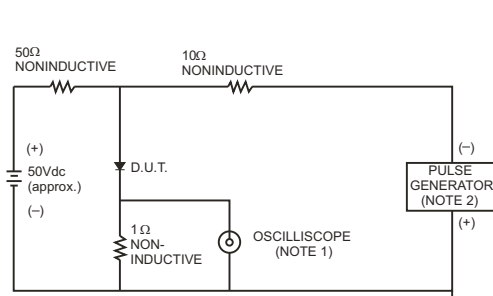
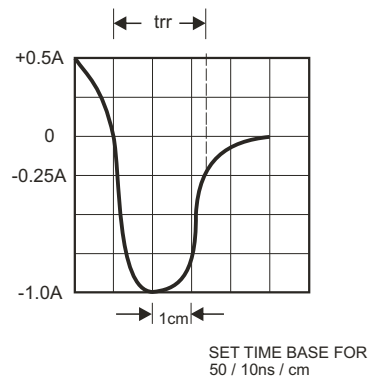


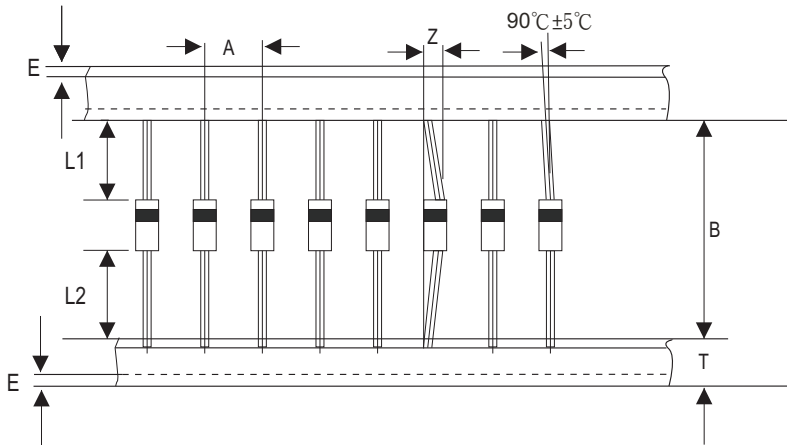
Fig.5 - Reverse Recover Time Characteristics and Test Circuit Diagram



NOTES: 1. Rise Time = 7ns max. Input Impedance = 1 megohm. 22pF.
2. Rise Time = 10ns max. Source Impedance = 50 ohms.



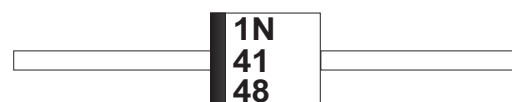
Taping Specification For Axial Lead Diodes



DO-35	SYMBOL	A	B	Z	T	E	L1-L2	
	(mm)	5.00 ± 0.5	52.0 ± 1.5	1.2 (max)	6.0 ± 0.4	0.8 (max)	1.0 (max)	
	(inch)	0.197 ± 0.020	2.047 ± 0.020	0.047 (max)	0.236 ± 0.016	0.032 (max)	0.040 (max)	

Marking Code

Part Number	Marking Code
1N4148-G	1N4148



Standard Packaging

Case Type	AMMO PACK	
	BOX (pcs)	CARTON (pcs)
DO-35	5,000	100,000

Looking for pricing, stock, or lifecycle information?

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