

Features

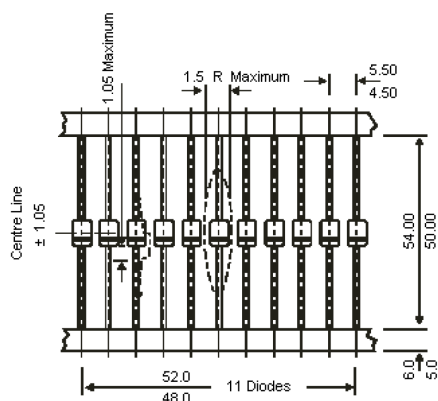
- High speed silicon switching diodes, axial leaded.
- General purpose, industrial, military and space applications.
- Hermetically sealed glass with a stud on either side of the glass passivated chip provides excellent stability.
- Extremely low leakage and very high reliability.

Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Values	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Reverse Voltage (Continuous)	V_R	75	
Average Forward Current	$I_{F(AV)}$	150	mA
Forward Current (DC)	I_F	200	
Repetitive Peak Forward Current	I_{FRM}	450	
Non Repetitive Peak Surge Current $t_p = 1\mu$ second $t_p = 1$ second	I_{FSM}	2000 500	
Power Dissipation Derating Factor	P_{TA}	500 2.85	mW mW / $^\circ\text{C}$
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-65 to +200	$^\circ\text{C}$

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise specified)

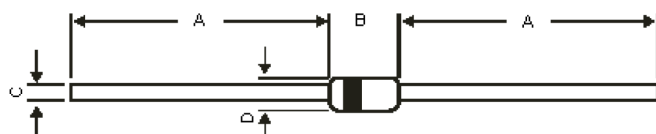
Parameter	Symbol	Test Condition	Minimum	Maximum	Unit
Forward Voltage	V _F	I _F = 10mA	-	1	V
Reverse Current	I _R	V _R = 20V	-	25	nA
		V _R = 75V		5	μA
		V _R = 20V, T _J = 150°C		50	μA
		V _R = 75V, T _J = 150°C		100	μA
Reverse Breakdown Voltage	V _{BR}	I _R = 100μA I _R = 5μA	100 75	-	V
Dynamic Characteristics					
Diode Capacitance	C _d	V _R = 0, f = 1MHz	-	4	pF
Forward Recovery Voltage	V _{fr}	I _F = 50mA, t _r = 20ns	-	2.5	V
Reverse Recovery Time	t _{rr}	I _F = 10mA, to I _R = 60mA R _L = 100Ω Measured at I _R = 1mA	-	4	ns



52mm Taping Specification

1. T and A indicates axial tape and ammo packing (52mm tape spacing).
2. 300mm (minimum) leader tape on every spool.
3. Number of empty places allowed 0.25% without consecutive empty places.
4. Ends of leads shall preferably not protrude beyond the tapes.
5. Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.

DO-35 Glass Axial Package



Dimensions	Minimum	Maximum
A	25.40	-
B	3.03	4.44
C	0.46	0.56
D	1.52	2.29

Dimensions : Millimetres

Specification Table

V _{rrm} (V)	I _{f(av)} (mA)	V _f (V) at I _f = 10mA	Length	Diameter	Package	Part Number
100	150	1	4.25mm	1.85mm	DO-35	1N4148

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