



Features

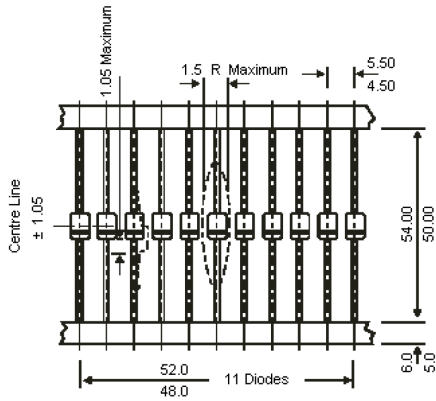
- High speed silicon switching diodes, axial leaded.
- General purpose, industrial, military and space applications.
- Hermetically sealed glass with a stud on either side of the glass passivated chip provides excellent stability.
- Extremely low leakage and very high reliability.

Absolute Maximum Ratings (T_A = 25°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 = 1μ second t _p = 1 second	I _{FSM}	2000 500	
Power Dissipation Derating Factor	P _{TA}	500 2.85	mW mW / °C
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +200	°C

Electrical Characteristics (T_A = 25°C unless otherwise specified)

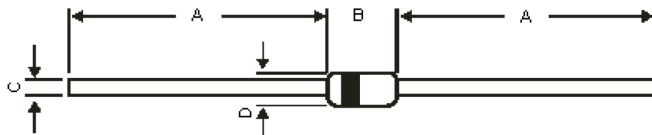
Parameter	Symbol	Test Condition	Minimum	Maximum	Unit
Forward Voltage	V _F	I _F = 10mA	-	1	V
Reverse Current	I _R	V _R = 20V	-	25	nA
		V _R = 75V		5	μA
		V _R = 20V, T _J = 150°C		50	μA
		V _R = 75V, T _J = 150°C		100	μA
Reverse Breakdown Voltage	V _{BR}	I _R = 100μA	100	-	V
		I _R = 5μA	75		
Dynamic 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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