

SILICON EPITAXIAL PLANAR DIODE

1N4148M

**DO-34
Glass Package**



Fast Switching Diode

ABSOLUTE MAXIMUM RATINGS

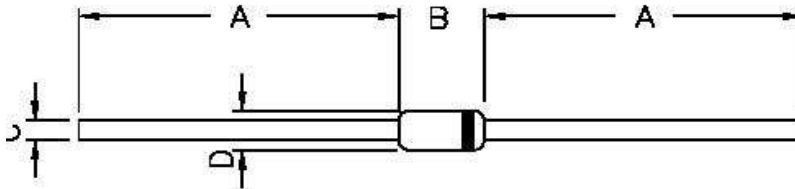
DESCRIPTION	SYMBOL	VALUE	UNIT
Reverse Voltage	V_R	50	V
Peak Reverse Voltage	V_{RM}	60	V
Rectified Current (Average) Half Wave Rectification with Resist. Load at $T_{amb}=25^\circ\text{C}$ and $f \geq 50\text{Hz}$	$*I_O$	130	mA
Surge Forward Current at $t < 1\text{s}$ and $T_j=25^\circ\text{C}$	I_{FSM}	500	mA
Power Dissipation at $T_{amb}=25^\circ\text{C}$	$*P_{tot}$	400	mW
Junction Temperature	T_j	200	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to +200	$^\circ\text{C}$

*Vaild provided that leads at a distance of 8mm from case are kept at ambient temperature

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F=100\text{mA}$		1.1	V
Leakage Current	I_R	$V_R=50\text{V}$		0.5	μA
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$	60		V
Diode Capacitance	C_{tot}	$V_R=0$		3.0	pF
Reverse Recovery Time	t_{rr}	When Switched from $I_F=10\text{mA}$ to $I_R=1\text{mA}$, $V_R=6\text{V}$, $R_L=100\Omega$,		4.0	ns

1N4148M Rev090606E

PACKAGE DO-34

DIM	MIN	MAX
A	25.40	—
B	—	2.90
C	—	∅ 0.45
D	—	∅ 1.90

NOTES:—

Cathode is marked by Band.
All Dimensions Are In mm.

PACKING:— 5000 Pcs/AMMO BOX

Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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