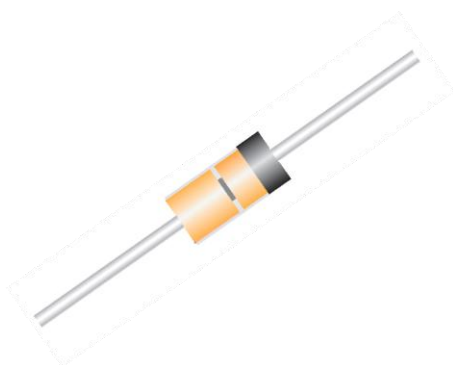



DO-35

Features

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Axial lead Package Ideally Suited for Automatic Insertion.
- Lead free in comply with EU RoHS 2011/65/EU directives
- Moisture Sensitivity Level 1

Mechanical Data

- Case : Molded plastic, DO-35
- Polarity : As Above Marked
- Terminals : Plated terminals, solderable per MIL-STD-750, Method 2026
- Epoxy : UL94-V0 rated flame retardant

Ordering Information

Part No.	Package	Packing
1N4148	DO-35	5000 / Box

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

Parameter	Symbol	Limits	Unit
Peak Reverse Voltage	V_{RM}	100	V
Surge Forward Current at $t < 1\text{s}$ and $T_J = 25^{\circ}\text{C}$	I_{FSM}	500	mA
Power Dissipation at $T_A = 25^{\circ}\text{C}$	P_{TOT}	500	mW
Forward continuous current	I_F	300	mA
Maximum Forward Voltage at $I_F = 10\text{mA}$	V_F	1	V
Maximum Leakage Current @ $V_R = 20\text{V}$ @ $V_R = 75\text{V}$ @ $V_R = 20\text{V}, T_J = 150^{\circ}\text{C}$	I_R	25	nA
		5	μA
		50	μA
Maximum Capacitance at $V_F = V_R = 0$	C_J	4	pF
Maximum Reverse Recovery Time From $I_F = 10\text{mA}$ to $I_{RR} = -1\text{mA}$, $V_R = 6\text{V}$, $R_L = 100$	t_{rr}	4	nS
Typical Thermal Resistance	$R_{\theta JA}$	300	$^{\circ}\text{C} / \text{W}$
Junction Temperature and Storage Temperature Range	T_J, T_{STG}	-65~+150	$^{\circ}\text{C}$

Note :

1. C_J at $V_R = 0$, $f = 1\text{MHz}$
2. From $I_F = 10\text{mA}$ to $I_R = 1\text{mA}$, $V_R = 6\text{Volts}$, $R_L = 100$

Rating and Characteristics Curves

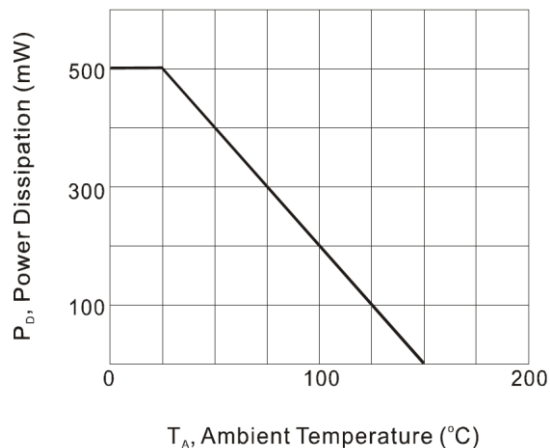


Fig.1 Derating Curve

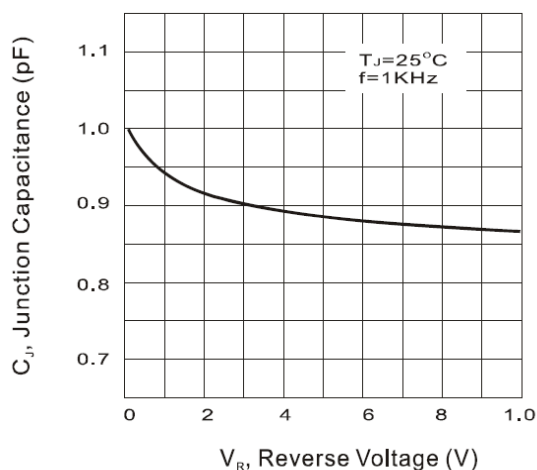


Fig.2 Typical Junction Capacitance

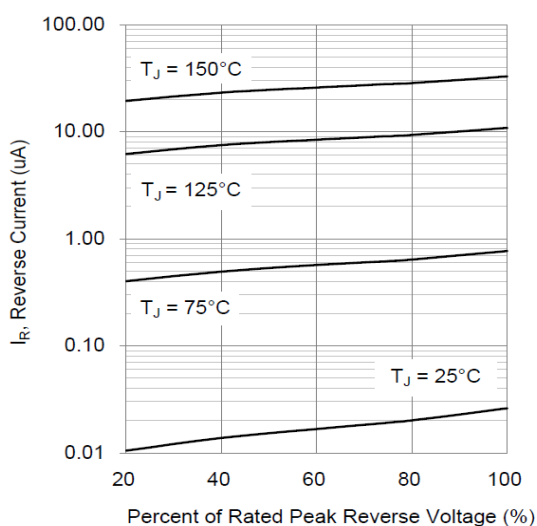


Fig.3 Typical Leakage Characteristics

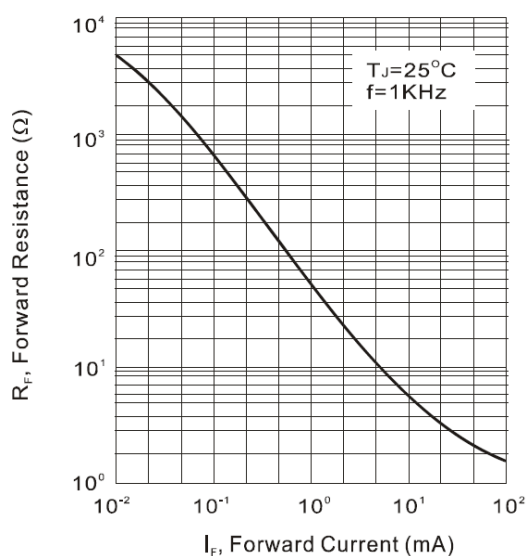


Fig.4 Dynamic Forward Resistance Versus Forward Current

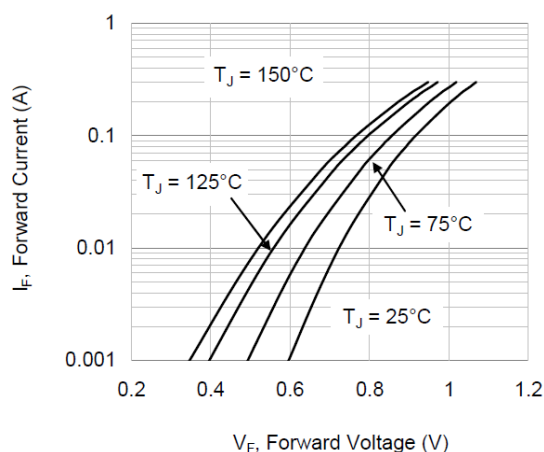


Fig.5 Typical forward Characteristics

Rating and Characteristics Curves

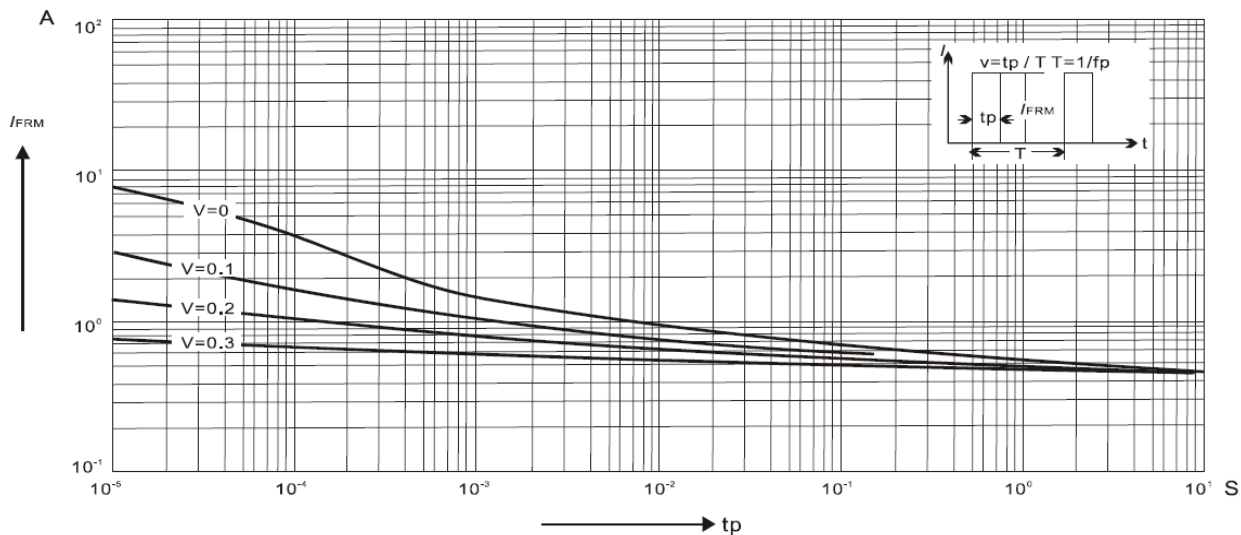
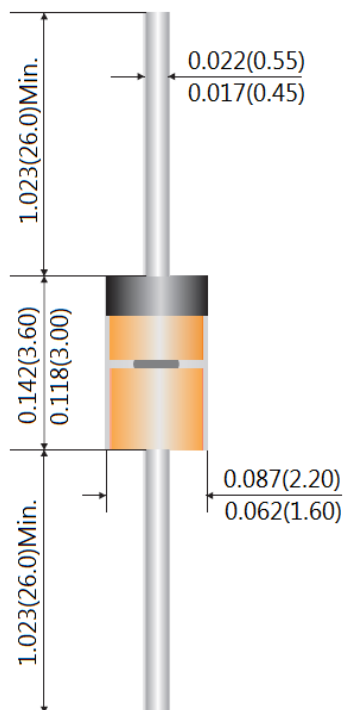


Fig.6 Admissible Repetitive Peak Forward Current Versus Pulse Duration

Package Outline Dimensions



DO-35

Dimensions in inches and (millimeters)