

1N4148

SWITCHING DIODES

Voltage	100 V	Power	500 mW
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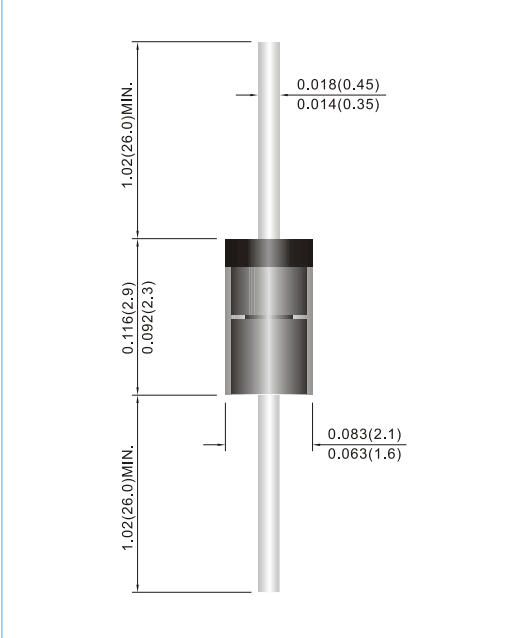
DO-34 Unit : inch(mm)

Features

- Fast Switching Speed
- Electrically Identical to Standard JEDEC
- High Conductance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: Molded Glass DO-34
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.09 grams
- Packing information
 - B - 2K per Bulk box
 - T/R - 10K per 15" plastic Reel
 - T/B - 5K per horiz. tape & Ammo box



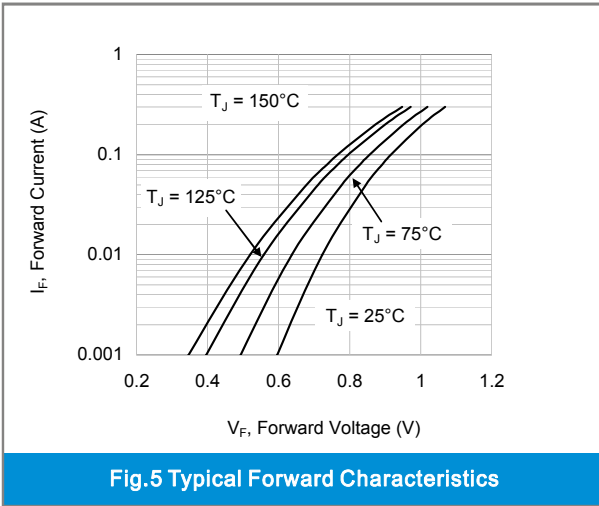
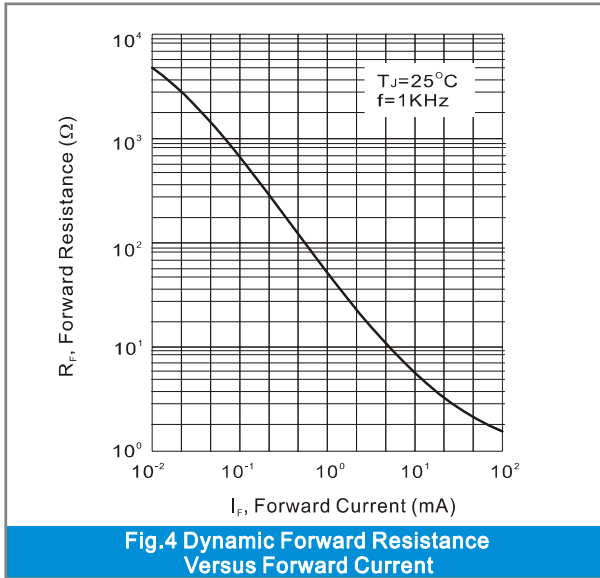
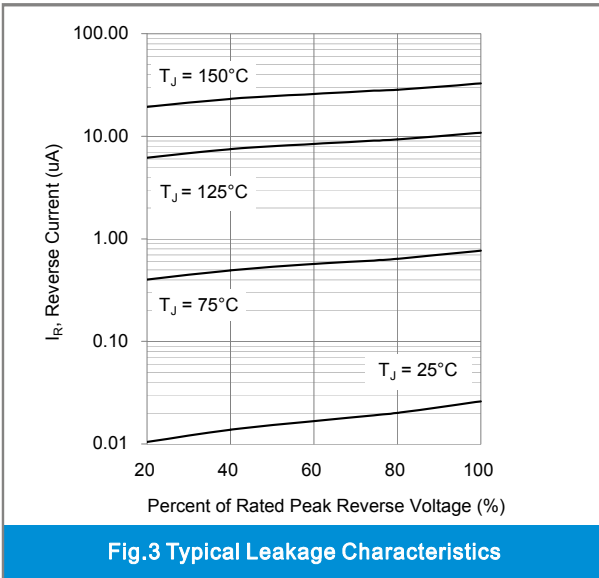
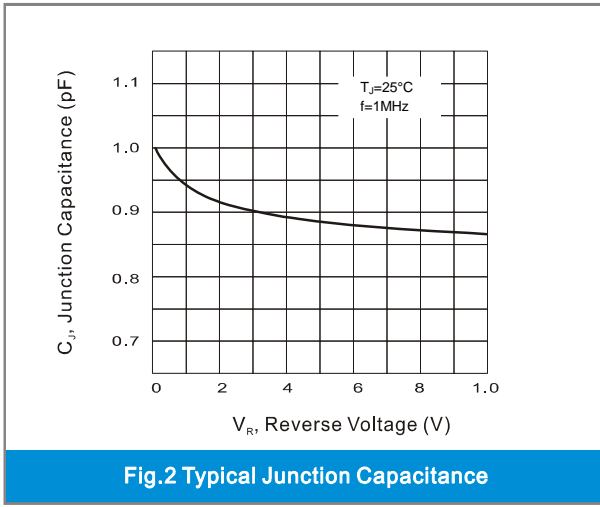
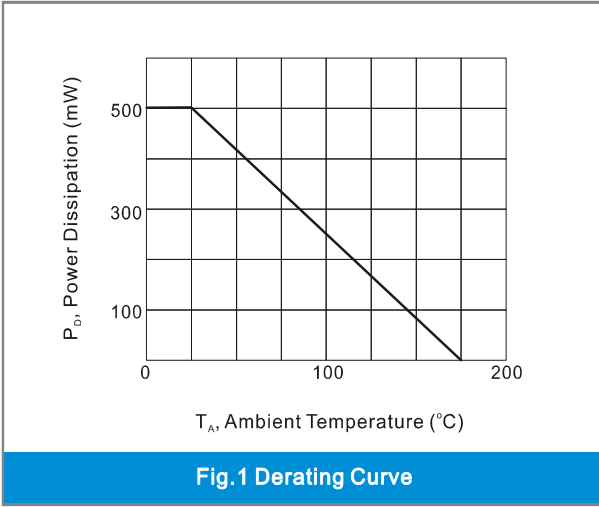
Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	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 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 5 50	nA μA μA
Maximum Capacitance at $V_F = V_R = 0$	C_J	4	pF
Maximum Reverse Recovery Time From $I_F = -I_R = 10\text{mA}$ to $I_{RR} = -1\text{mA}, V_R = 6\text{V}, R_L = 100\Omega$	T_{RR}	4	ns
Typical Thermal Resistance	$R_{\theta JA}$	300	$^{\circ}\text{C/W}$
Junction Temperature And Storage Temperature Range	T_J, T_{STG}	-65 to +175	$^{\circ}\text{C}$

Note : 1. C_J at $V_R = 0, f = 1\text{MHz}$

2. From $I_F = 10\text{mA}$ to $I_R = 1\text{mA}, V_R = 6\text{V}, R_L = 100\Omega$

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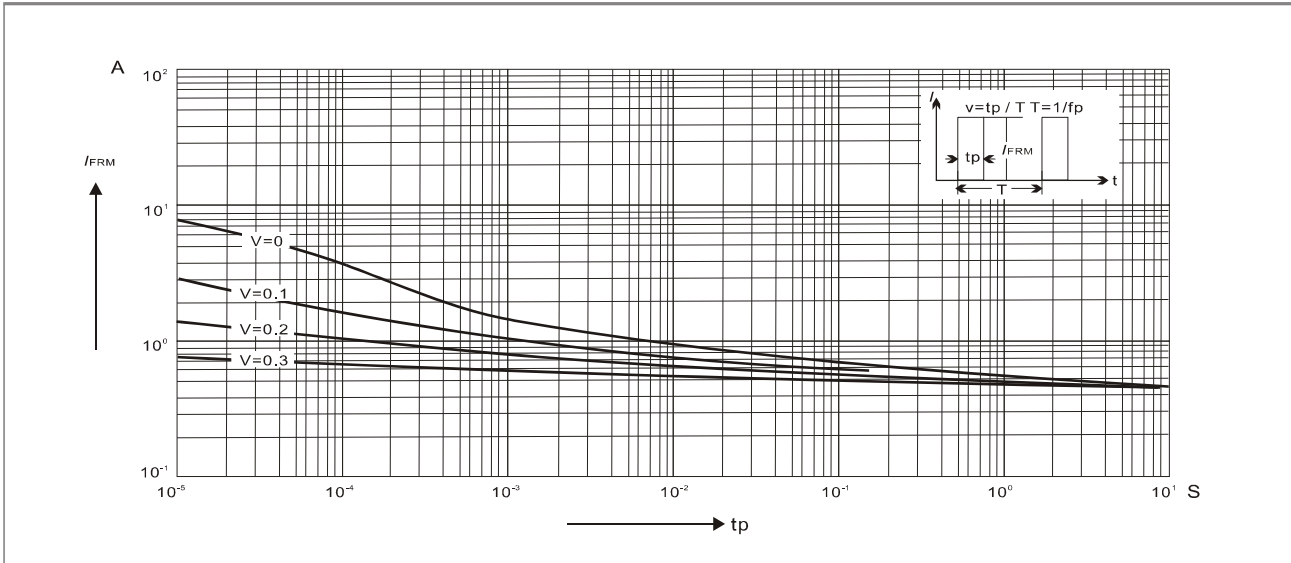


Fig.6 Admissible Repetitive Peak Forward Current Versus Pulse Duration

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