

1N4148

SWITCHING DIODES

VOLTAGE
100 Volt
POWER
500 mWatt
DO-34

Unit : inch(mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Axial lead Package Ideally Suited for Automatic Insertion.
- Lead free in compliance with EU RoHS 2011/65/EU directive

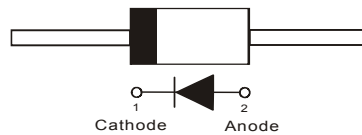
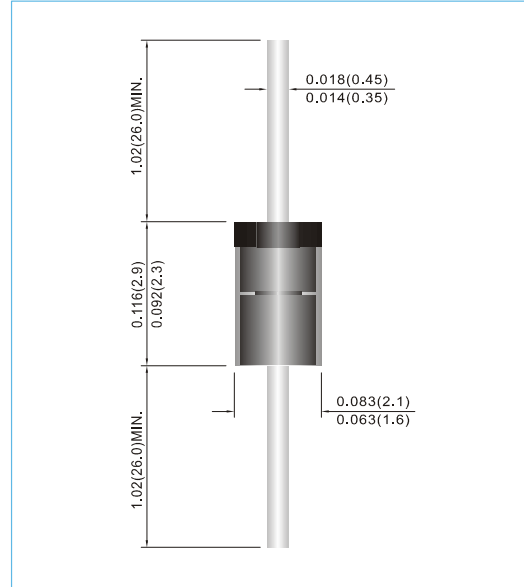
MECHANICAL DATA

- Case: Molded Glass DO-34
- Terminals: Solderable per MIL-STD-750, Method 2026
- Packing information

B/P - 2K per Bulk box

T/R - 10K per 15" Reel

T/B - 5K per horiz. tape & Ammo box



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Reverse Voltage	V_{RM}	100	V
Surge Forward Current at $t < 1s$ and $T_J = 25^\circ C$	I_{FSM}	500	mA
Power Dissipation at $T_A = 25^\circ C$	P_{TOT}	500	mW
Forward continuous current	I_F	300	mA
Maximum Forward Voltage at $I_F = 10mA$	V_F	1	V
Maximum Leakage Current at $V_R = 20V$ at $V_R = 75V$ at $V_R = 20V, T_J = 150^\circ C$	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 $I_F = -I_R = 10mA$ to $I_{RR} = -1mA, V_R = 6V, R_L = 100 \Omega$	t_{rr}	4	ns
Typical Thermal Resistance	$R_{\theta JA}$	300	$^\circ C / W$
Junction Temperature and Storage Temperature Range	T_J, T_S	-65 to +175	$^\circ C$

NOTE:

 1. C_J at $V_R = 0, f = 1MHz$

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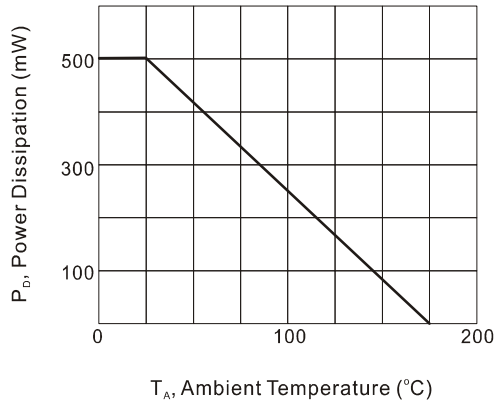


Fig.1 Derating Curve

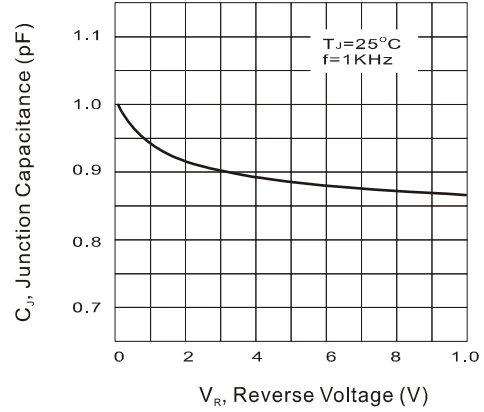


Fig.2 Typical Junction Capacitance

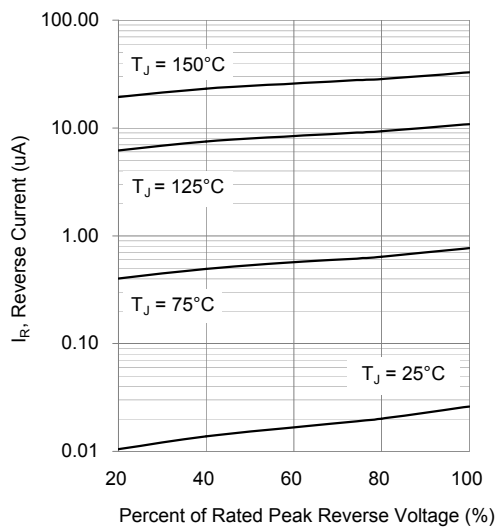


Fig.3 Typical Leakage Characteristics

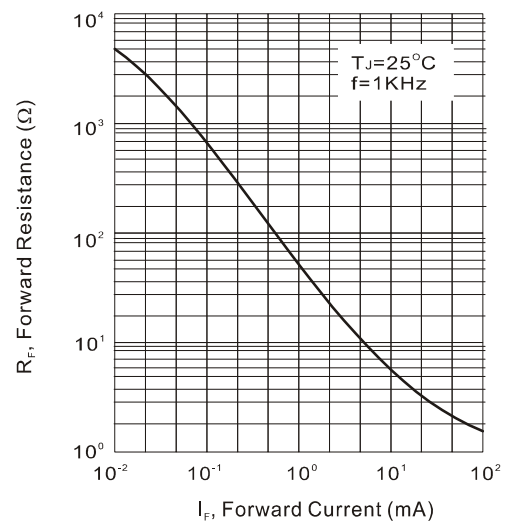


Fig.4 Dynamic Forward Resistance Versus Forward Current

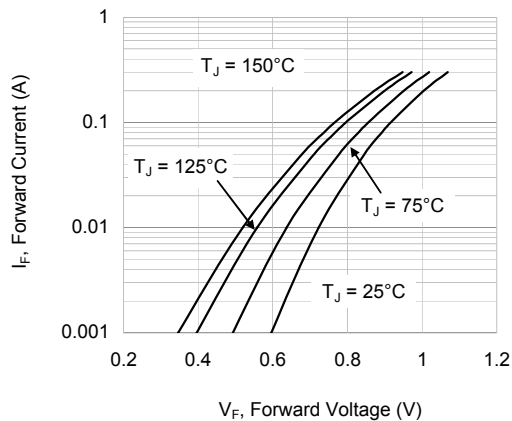


Fig.5 Typical Forward Characteristics

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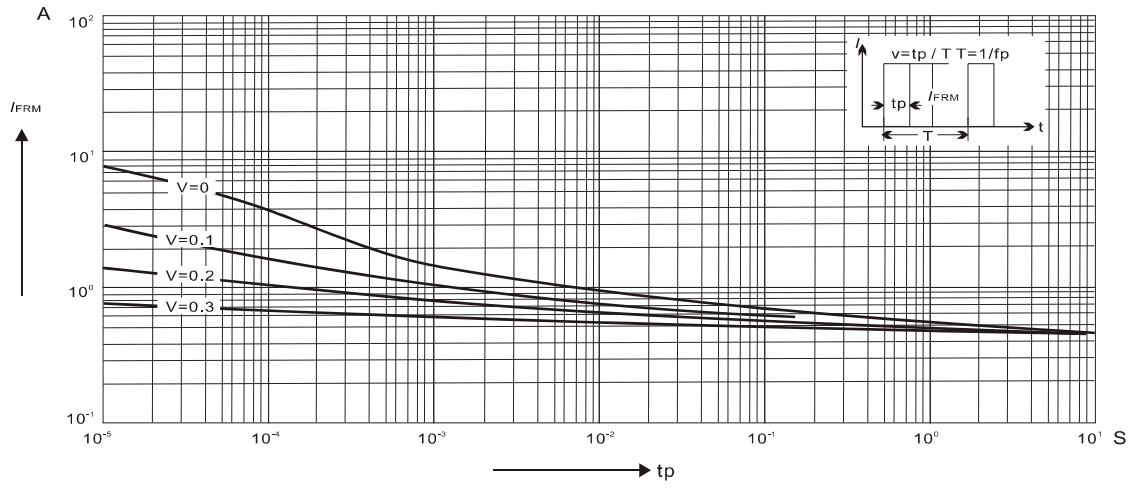


Fig.6 Admissible Repetitive Peak Forward Current Versus Pulse Duration

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Part No_packing code_Version

1N4148-34_AX_10001
 1N4148-34_AY_10001
 1N4148-34_B0_10001
 1N4148-34_R2_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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