



# 1N4148

## SWITCHING DIODES

**Voltage**

**100 V**

**Power**

**500 mW**

**DO-34**

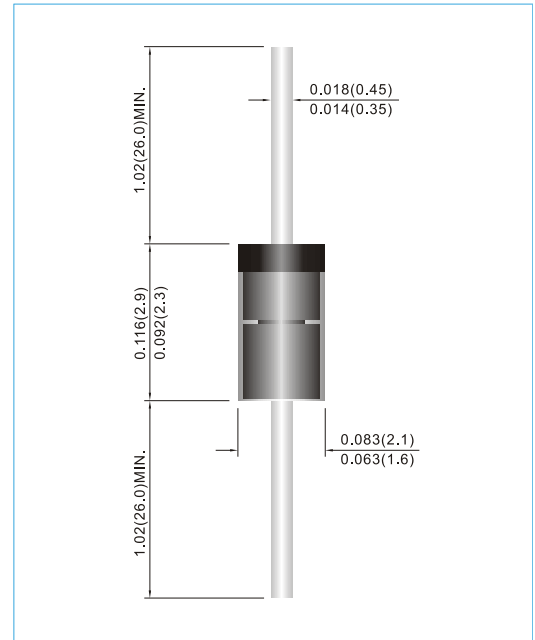
Unit : inch(mm)

### 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)

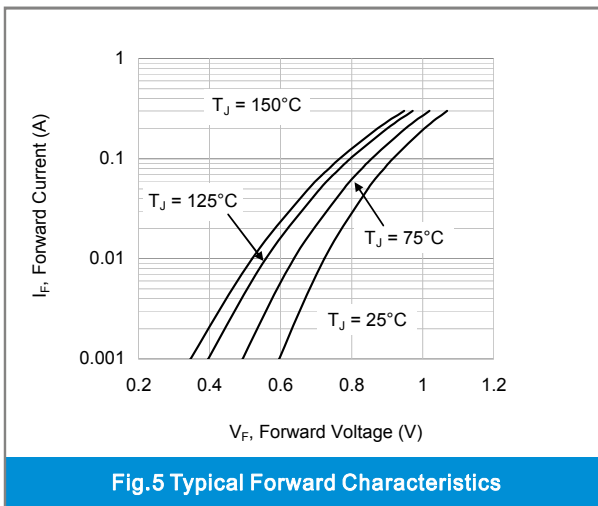
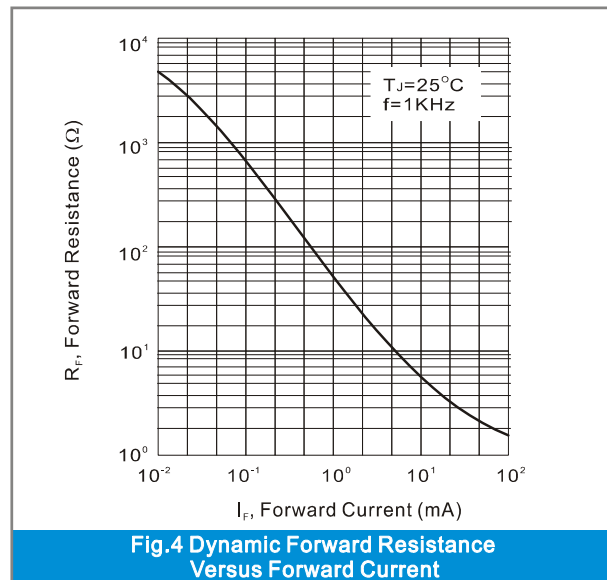
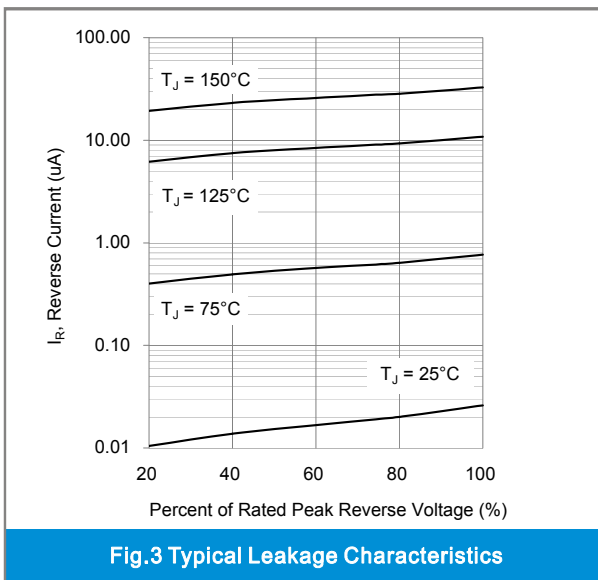
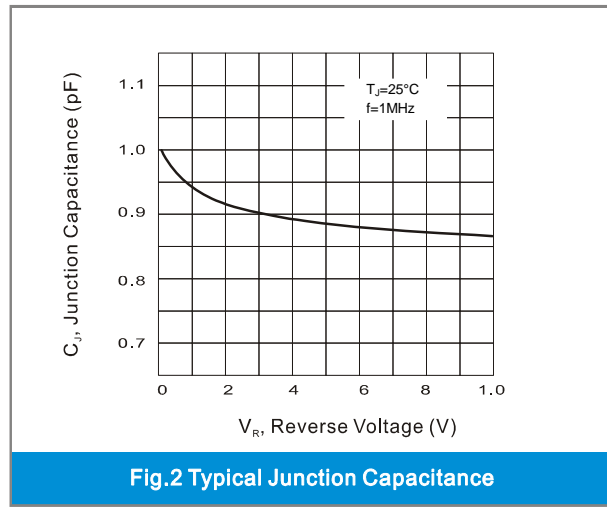
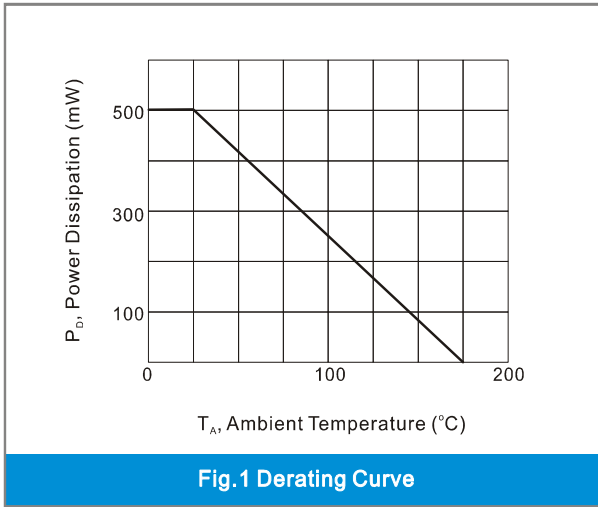
PARAMETER	SYMBOL	VALUE	UNIT
Peak Reverse Voltage	$V_{RM}$	100	V
Surge Forward Current at $t < 1\text{s}$ and $T_J = 25^\circ\text{C}$	$I_{FSM}$	500	mA
Power Dissipation at $T_A = 25^\circ\text{C}$	$P_{TOT}$	500	mW
Forward Continuous current	$I_F$	300	mA
Maximum Forward Voltage at $I_F = 10\text{mA}$	$V_F$	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 $\mu\text{A}$ $\mu\text{A}$
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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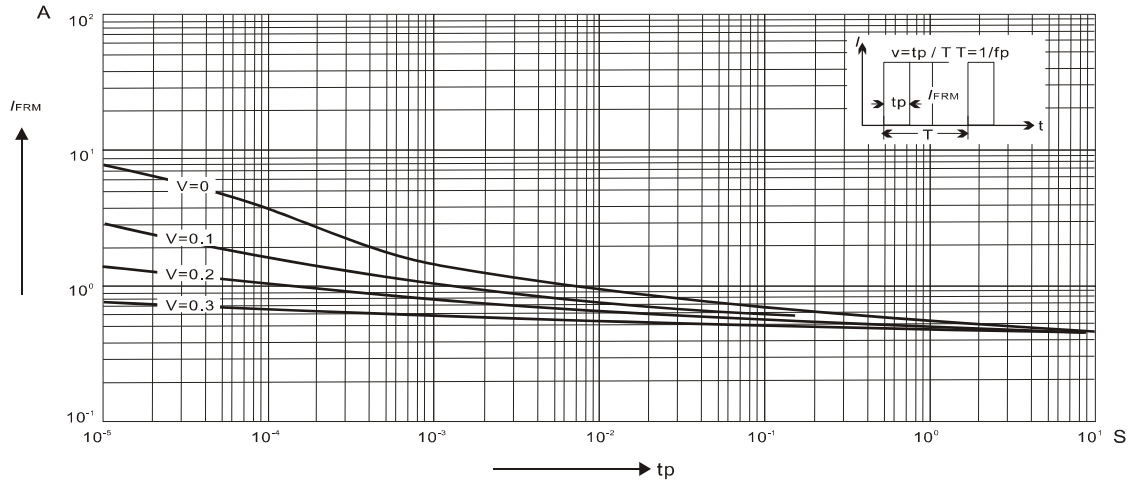


Fig.6 Admissible Repetitive Peak Forward Current Versus Pulse Duration



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## Part No\_packing code\_Version

1N4148-34\_AX\_10001

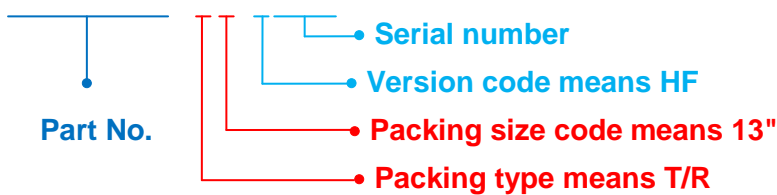
1N4148-34\_AY\_10001

1N4148-34\_B0\_10001

1N4148-34\_R2\_10001

### For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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