

1N4148

SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 500 mWatts

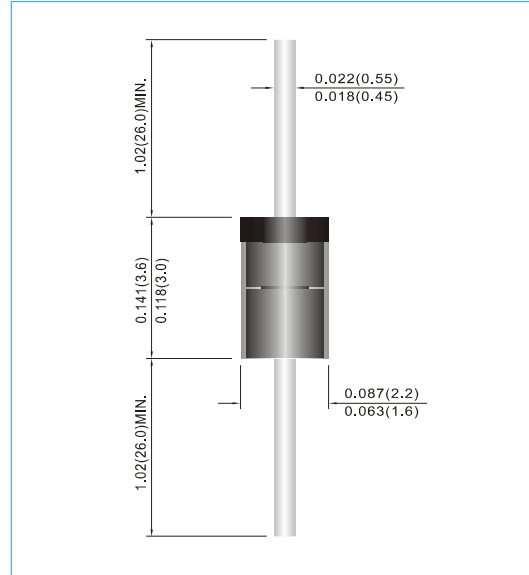
DO-35 Unit : inch(mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Axial lead Package Ideally Suited for Automatic Insertion.
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded Glass DO-35
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.13 grams
- Mounting Position: Any
- Ordering information: Suffix : " -35 " to order DO-35 Package
- Packing information
 - B - 2K per Bulk box
 - T/R - 10K per 15" plastic Reel
 - T/B - 5K per horiz. tape & Ammo box



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

PARAMETER	SYMBOL	VALUE	UNITS
Peak Reverse Voltage	V _{RM}	100	V
Maximum Average Forward Current at T _A =25°C And f ≥50Hz	I _{F(AV)}	150	mA
Surge Forward Current at t < 1s and T _J = 25 °C	I _{FSM}	500	mA
Power Dissipation at T _A = 25 °C	P _{TOT}	500	mW
Maximum Forward Voltage at I _F =10mA	V _F	1.0	V
Maximum Leakage Current at V _R =20V at V _R =75V at V _R =20V ,T _J = 150°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 Ω	t _{tr}	4	ns
Typical Thermal Resistance	R _{θJA}	300	°C / W
Junction Temperature and Storage Temperature Range	T _J ,T _S	-65 to +150	°C

NOTE:

1. C_J at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

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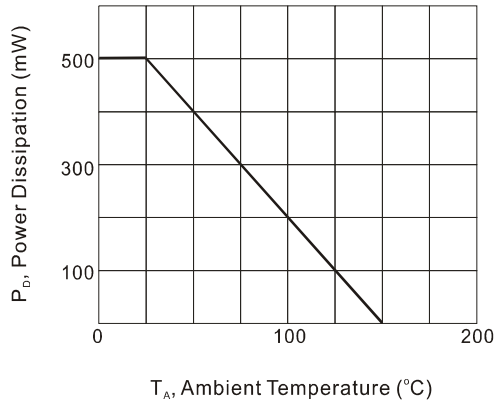


Fig.1 Derating Curve

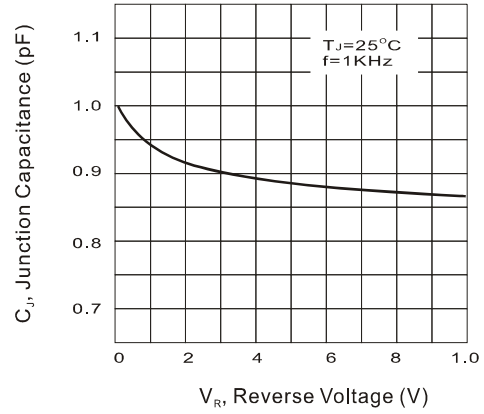


Fig.2 Typical Junction Capacitance

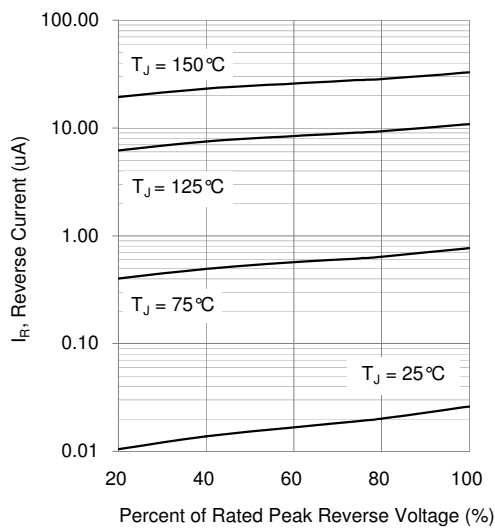


Fig.3 Typical Leakage Characteristics

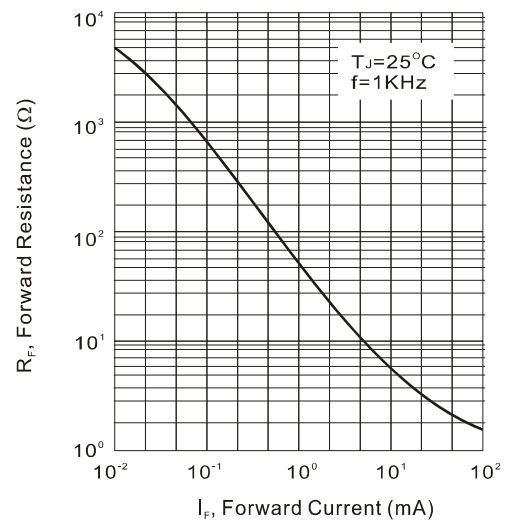


Fig.4 Dynamic Forward Resistance Versus Forward Current

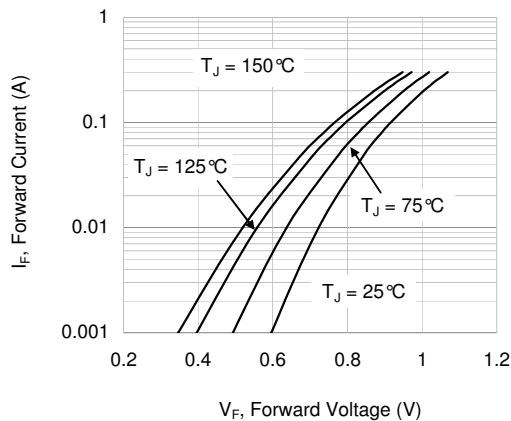


Fig.5 Typical Forward Characteristics

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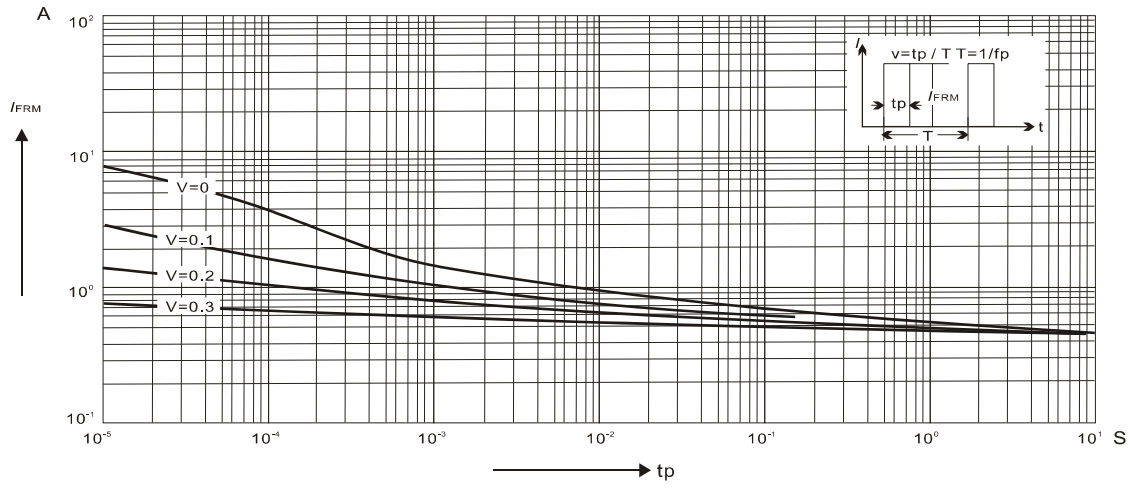


Fig.6 Admissible Repetitive Peak Forward Current Versus Pulse Duration

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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
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

- 1N4148-35_AX_10001
- 1N4148-35_AY_10001
- 1N4148-35_B0_10001
- 1N4148-35_R2_10001

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