



## DATA SHEET

# 1N4148-35

#### **SWITCHING DIODES**

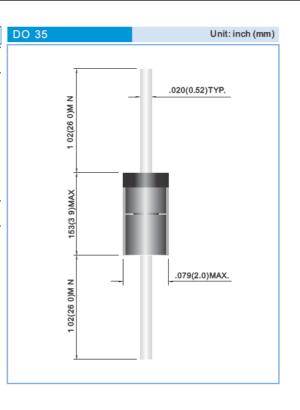
VOLTAGE 100 Volts POWER 500 mWatts
FEATURES

- · Fast switching Speed.
- · Electrically Identical to Standard JEDEC
- · High Conductance
- · Axial lead Package Ideally Suited for Automatic Insertion.
- · Both normal and Pb free product are available :

Normal : 80~95% Sn, 5~20% Pb Pb free: 98.5% Sn above

### **MECHANICAL DATA**

- · Case: Molded Glass DO-35
- · Terminals: Solderable per MIL-STD-202E, Method 208
- · Polarity: See Diagram Below
- · 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 13" plastic Reel
  - T/B 5K per horiz. tape & Ammo box



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

PARAMETER	SYMBOL	1N4148	unis
Reverse Vollage	VR	75	v
Peak Reverse Voltage	Vrm	100	v
RMS Volage	Vrms	50	v
Maximum Average Forward CumentatTa=25°C And f≥ 50Hz	Δv	150	m A
Sunge Fonward Cumentatt< 1s and T=25 °C	₽sm	500	m A
PowerD issipation at Tam b= 25 °C	Ртот	500	m W
Maximum Fonward Voltage at I = 10 mA	VF	1.0	V
Maximum Leakage Cument at $v_x$ = 20 $v_z$ = 75 $v_z$ at $v_z$ = 20 $v_z$ = 150 $^{\circ}$ C	ъ	25 5 50	nA μA μA
Maximum Capaciiance (Note 1)	СJ	4	pF
Maxhnum Revense Recovery Thre (Note 2)	Trr	4	ns
Maximum TheimalResistance	R OJA	350	°C/W
Junction Temperature and Storage Temperature Range	ТлДз	-65 to +175	°c

#### NOTE:

- 1. CJ at VR=0, f=1MHZ
- 2. From IF=10mA to IR=1mA, VR=6Volts, RL=100 $\Omega$

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## RATING AND CHARACTERISTIC CURVES

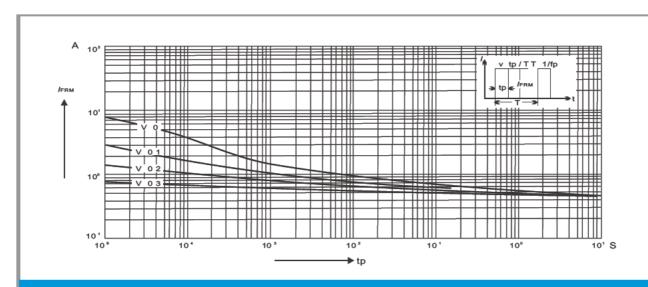


Fig. 1 ADMISSIBLE REPETITIVE PEAK FORWARD CURRENT VERSUS PULSE DURATION

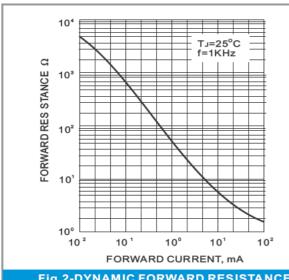


Fig.2-DYNAMIC FORWARD RESISTANCE VERSUS FORWARD CURRENT

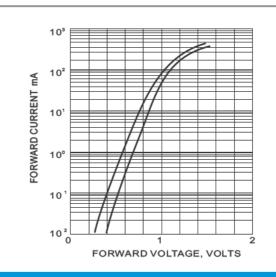


Fig.3 FORWARD CHARACTERISTICS

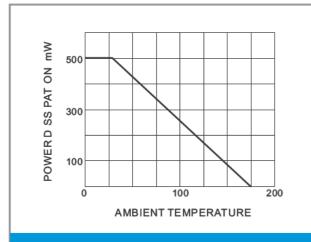


Fig.4 DERATING CURVE

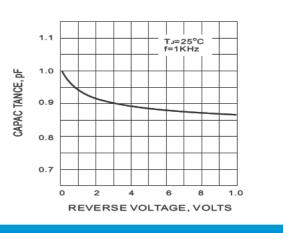


Fig. 5 TYPICAL JUNCTION CAPACITANCE

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