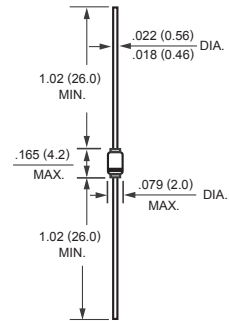


**SILICON PLANAR ZENER DIODE**

**FEATURES**

- \* Fast Switching Device( $T_{RR}<4.0nS$ )
- \* DO-35 Package (JEDEC)
- \* Through-Hole Device Type Mounting
- \* Hermetically Sealed Glass
- \* Compression Bonded Construction
- \* All external surfaces are corrosion resistant and leads are readily solderable



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.

**MAXIMUM RATINGS** ( @ TA = 25°C unless otherwise noted )

RATINGS	SYMBOL	1N4448	UNITS
Peak Reverse Voltage	$V_{RM}$	100	Volts
Maximum DC Blocking Voltage	$V_{DC}$	70	Volts
Maximum Forward Continuous Current	$I_{FM}$	100	mAmps
Maximum Average Forward Rectified Current	$I_O$	150	mAmps
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	1	Amps
Typical Reverse Recovery Time( $I_F=I_R=30mA, I_{rr}=0.1X I_R, R_L=100\Omega$ )	$T_{rr}$	4	nS
Typical Junction Capacitance( $V_R=0V, f=1MHz$ )	$C_T$	4	pF
Maximum Power Dissipation	$P_D$	500	mW
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to +200	°C

**ELECTRICAL CHARACTERISTICS** (@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	1N4448	UNITS
Maximum Instantaneous Forward Voltage	@ $I_F=5mA$	0.72	Volts
	@ $I_F=100mA$	1.0	
Maximum Instantaneous Reverse Current	@ $V_R=20V$	25	nAmps
	@ $V_R=75V$	5	uAmps

## RATING AND CHARACTERISTICS CURVES ( 1N4448 )

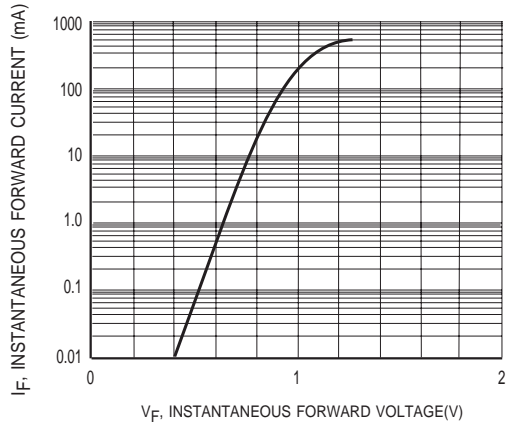


Figure1 Forward Characteristics

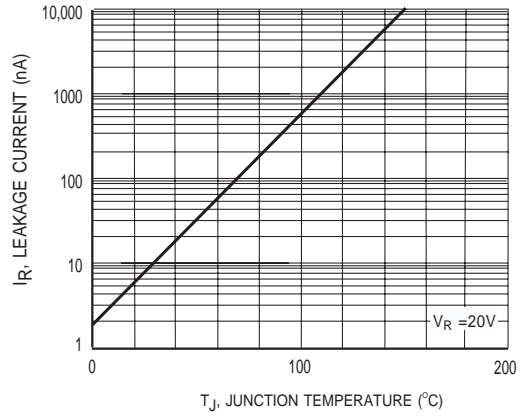


Figure2 Leakage Current vs Junction Temperature

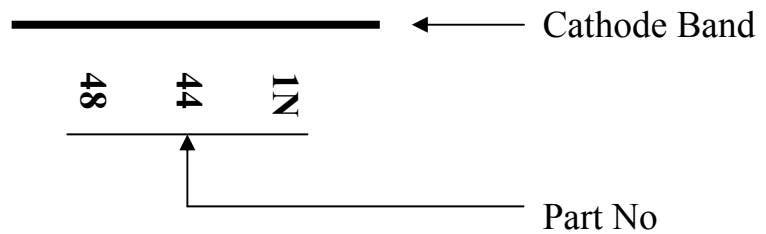


## Attachment information about 1N4448

### 1. Internal Circuit



### 2. Marking on the body



# PACKAGING OF DIODE

## BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-35	-B	10,000	240*100*100	410*350*275	120,000	21.5
DO-41G	-B	2,500	240*100*100	410*350*275	50,000	15.6

## REEL PACK

PACKAGE	PACKING CODE	REEL ( EA )	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-35	-T	10,000	5.0	52	356	370*370*420	50,000	11.00
DO-41G	-T	5,000	5.0	52	356	370*370*420	25,000	11.50
SOT-23/-3L	-T	3,000	---	---	178	438*438*220	180,000	---
LL-34	-T	2,500	---	---	178	385*270*220	90,000	7.50
SOD-123	-T	3,000	---	---	178	438*438*220	180,000	9.00
SOD-323	-T	3,000	---	---	178	438*438*220	180,000	9.00
SOT-323	-T	3,000	---	---	178	438*438*220	180,000	9.00
LL-41	-W	5,000	---	---	330	370*370*420	50,000	6.6

## AMMO PACK

PACKAGE	PACKING CODE	REEL ( EA )	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON ( EA )	GROSS WEIGHT (Kg)
DO-35	-F	5,000	5.0	52	250*80*80	425*270*220	100,000	20.00
DO-41G	-F	3,000	5.0	52	250*80*80	425*270*220	60,000	20.00

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