

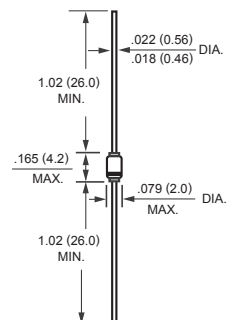
SILICON PLANAR ZENER DIODE

FEATURES

- * Fast Switching Device($T_{RR}<4.0\text{nS}$)
- * 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 (@ $T_A = 25^\circ\text{C}$ 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($I_F=I_R=30\text{mA}$, $I_{rr}=0.1X_{IR}$, $R_L=100\Omega$)	T_{rr}	4	nS
Typical Junction Capacitance($V_R=0\text{V}$, $f=1\text{MHz}$)	C_T	4	pF
Maximum Power Dissipation	P_D	500	mW
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +200	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (@ $T_A=25^\circ\text{C}$ unless otherwise noted)

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

RATING AND CHARACTERISTICS CURVES (1N4448)

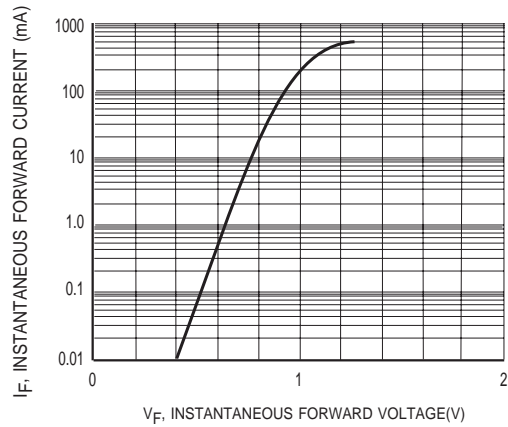


Figure1 Forward Characteristics

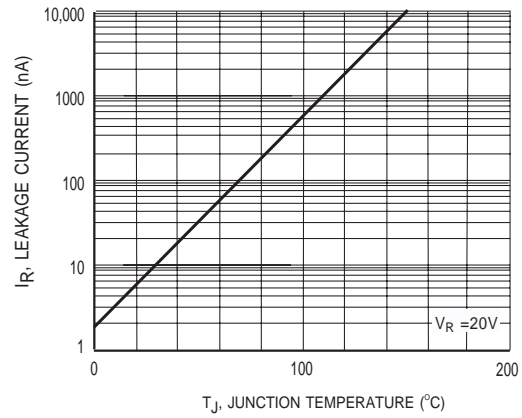
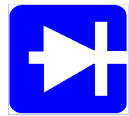


Figure2 Leakage Current vs Junction Temperature



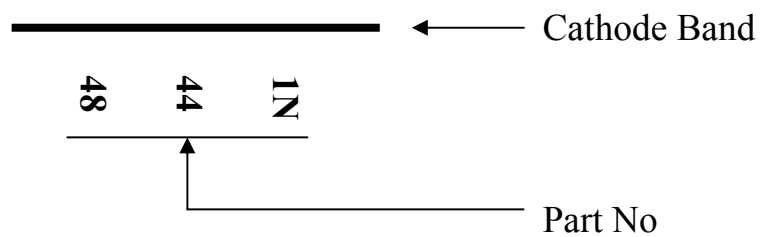
RECTRON

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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