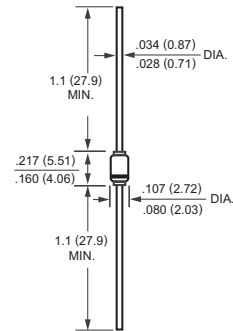


SILICON PLANAR ZENER DIODE

FEATURES

- * Zener Voltage Range 3.3 to 56 Volts
- * DO-41 Package (JEDEC)
- * Through-Hole Device Type Mounting
- * Hermetically Sealed Glass
- * Compression Bonded Construction
- * All external surfaces are corrosion resistant and leads are readily solderable



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

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

RATINGS	SYMBOL	VALUE	UNITS
Power Dissipation	PD	1000	mW
Junction Temperature	T _J	200	°C
Storage Temperature Range	T _{stg}	-65to+200	°C

Note: Standard tolerance : Vz +/- 5%

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

TYPE	V _{ZT} @I _{ZT} (Volts) Nominal	I _{ZT} (mA)	Z _{ZT} @I _{ZT} (Ω) MAX	I _{ZK} (mA)	Z _{Zk} @I _{Zk} (Ω) MAX	I _R @V _R (μA) MAX	V _R (Volts)
1N4728A	3.3	76	10	1	400	100	1
1N4729A	3.6	69	10	1	400	100	1
1N4730A	3.9	64	9	1	400	50	1
1N4731A	4.3	58	9	1	400	10	1
1N4732A	4.7	53	8	1	500	10	1
1N4733A	5.1	49	7	1	550	10	1
1N4734A	5.6	45	5	1	600	10	2
1N4735A	6.2	41	2	1	700	10	3
1N4736A	6.8	37	3.5	1	700	10	4
1N4737A	7.5	34	4	0.5	700	10	5
1N4738A	8.2	31	4.5	0.5	700	10	6
1N4739A	9.1	28	5	0.5	700	10	7
1N4740A	10	25	7	0.25	700	10	7.6
1N4741A	11	23	8	0.25	700	5	8.4
1N4742A	12	21	9	0.25	700	5	9.1
1N4743A	13	19	10	0.25	700	5	9.9
1N4744A	15	17	14	0.25	700	5	11.4
1N4745A	16	15.5	16	0.25	700	5	12.2
1N4746A	18	14	20	0.25	700	5	13.7
1N4747A	20	12.5	22	0.25	750	5	15.2
1N4748A	22	11.5	23	0.25	750	5	16.7
1N4749A	24	10.5	25	0.25	750	5	18.2
1N4750A	27	9.5	35	0.25	750	5	20.6
1N4751A	30	8.5	40	0.25	1000	5	22.8
1N4752A	33	7.5	45	0.25	1000	5	25.1
1N4753A	36	7.0	50	0.25	1000	5	27.4
1N4754A	39	6.5	60	0.25	1000	5	29.7
1N4755A	43	6.0	70	0.25	1500	5	32.7
1N4756A	47	5.5	80	0.25	1500	5	35.8
1N4757A	51	5.0	95	0.25	1500	5	38.8
1N4758A	56	4.5	110	0.25	2000	5	42.6

RATING AND CHARACTERISTICS CURVES (1N4728A-1N4758A)

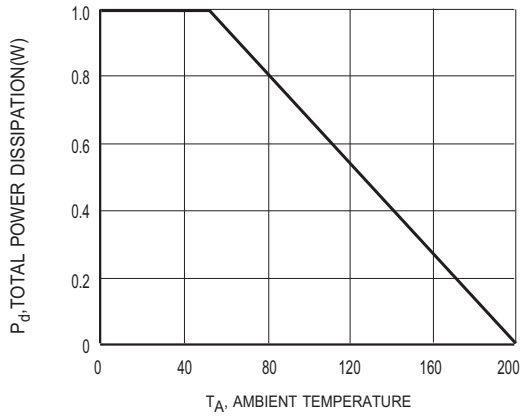


Figure1 Power Dissipation vs Ambient Temperature

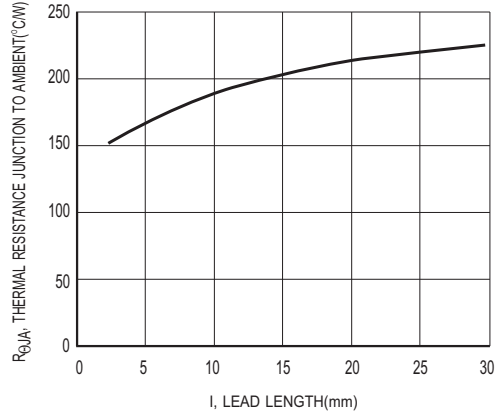


Figure2 Typical Thermal Resistance vs Lead Length

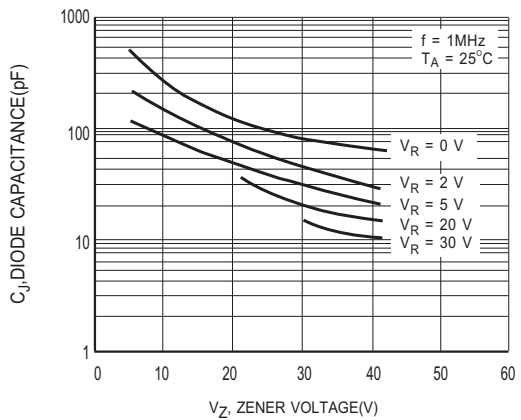


Figure3 Junction Capacitance vs Zener Voltage

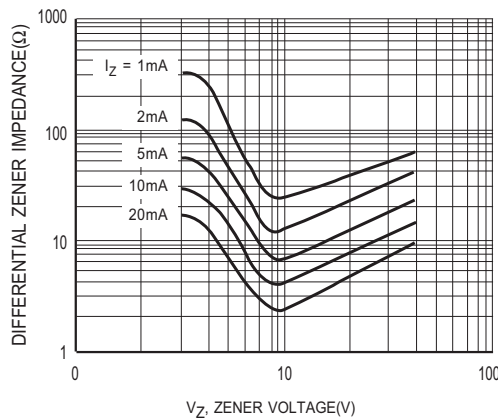


Figure4 Typical Zener Impedance vs Zener Voltage

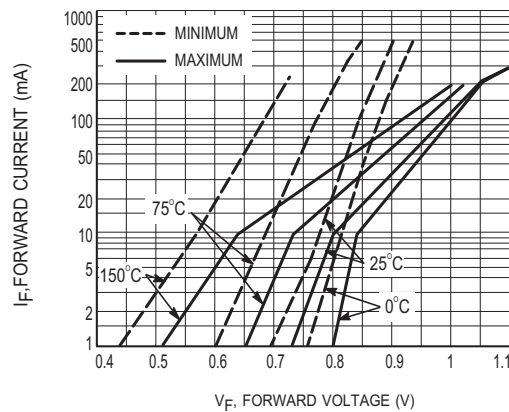


Figure5 Typical Forward Characteristics

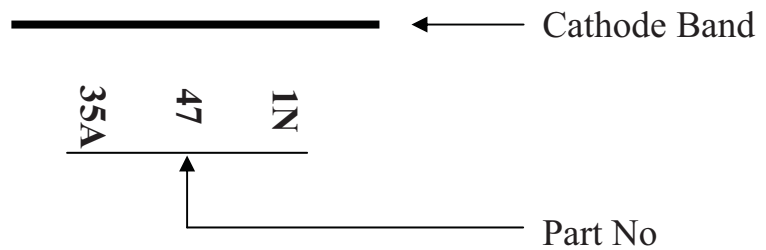


Attachment information about 1N4735A

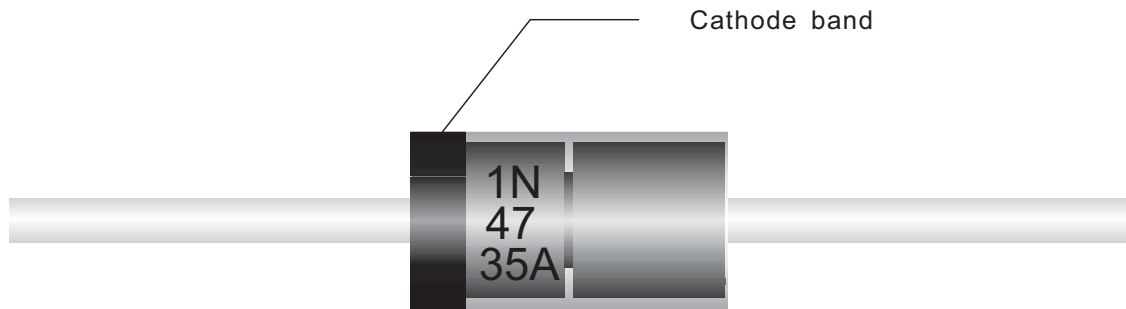
1. Internal Circuit



2. Marking on the body



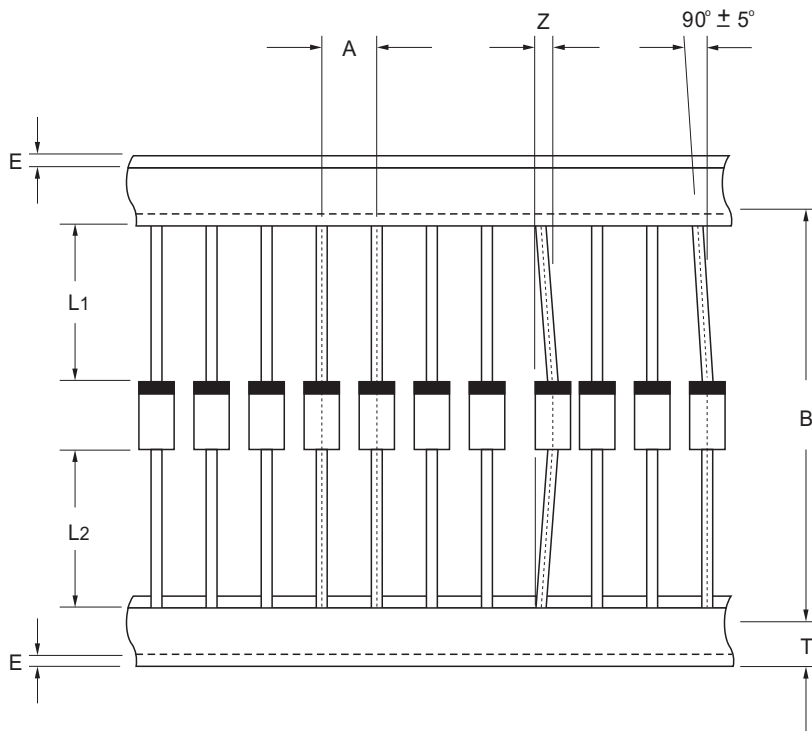
2. MARKING



3. TAPING

Axial lead devices are packed in accordance with EIA standard RS-296-E and specifications given below.

COMPONENT OUTLINE	COMPONENT PITCH A ± 0.5mm	INTER TAPE PITCH B ± 1.0mm	CUMULATIVE PITCH TOLERANCE
DO-41G	5.0mm	52.0mm	1.0mm/20pitch



ITEM	SYMBOL	SPECIFICATIONS(mm)	SPECIFICATIONS(inch)
Component alignment	Z	1.2max	0.048max
Tape width	T	6.0±0.4	0.236±0.016
Exposed adhesive	E	0.8max	0.032max
Body eccentricity	L1-L2	1.0max	0.040max

NOTES: Each component lead shall be sandwiched between tapes for a minimum of 3.2mm (0.126")

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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