

LITEON**D28 thru D60**

T-25-05

BIDIRECTIONAL DIODE THYRISTORS**FEATURES:**

- Low Cost
- Symmetrical Characteristics
- High current capability
- Easily, cleaned with Freon, Alcohol, Chlorothene and similar solvents
- The plastic material carries U/L recognition 94V-0

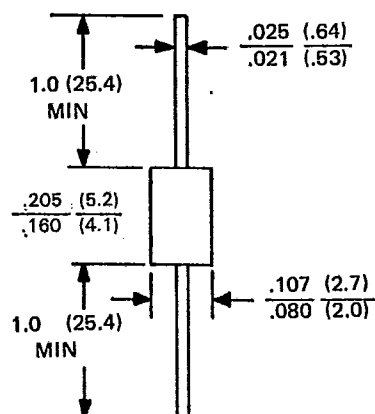
MECHANICAL DATA

Case: Molded Plastic

Terminals: Plated axial leads Solderable per MIL-STD-202 Method 208

Weight: 0.011 ounce, 0.2 gram

Mounting Position: Any

DIACS
28 to 60 Volts

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load,

For capacitive load, derate current by 20%.

		D28	D32	D35	D40	D50	D60	Units
Break-over Voltage V_{BO} (Both Direction)	Min.	24	27	30	35	42	56	Volts
	Max.	32	37	40	45	58	70	Volts
Break-over Voltage Symmetry ΔV_{BO} Max. at 5mA		3	3	3	3	4	4	Volts
Break-over Current I_{BO} Max.		50	50	50	50	50	50	μA
Peak Output Voltage ΔV^* at 5mA Min.		5	5	5	5	8	10	Volts
Peak Current 10 μ Sec pulse, rate 120Hz repetition Min.		2	2	2	2	2	2	A
Operating Temperature		-40 to +125						°C
Storage Temperature		-40 to +150						°C

NOTE : D32, D35, AND D40 ARE NOW AVAILABLE

BIDIRECTIONAL DIODE THYRISTORS

FIGURE 1- V-I CHARACTERISTICS

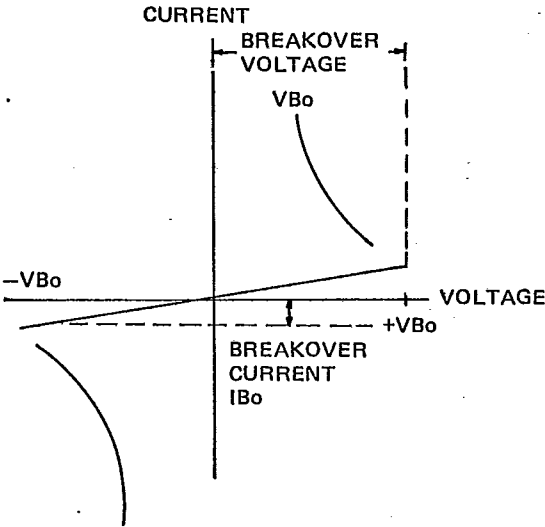


FIGURE 2- REPETITIVE PEAK ON-STATE CURRENT VS PULSE DURATION

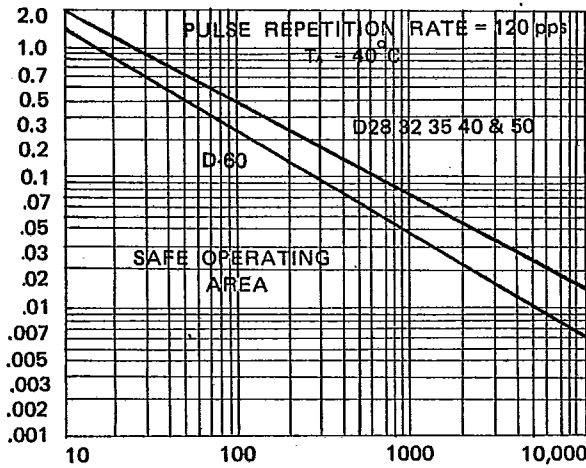


FIGURE 3- NORMALIZED VBO CHANGE VS JUNCTION TEMPERATURE

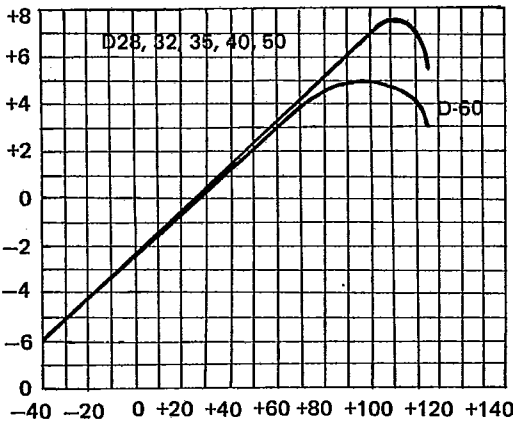


FIGURE 4- TEST CIRCUIT WAVEFORMS (SEE FIGURE 5)

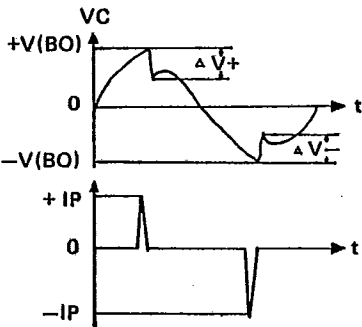
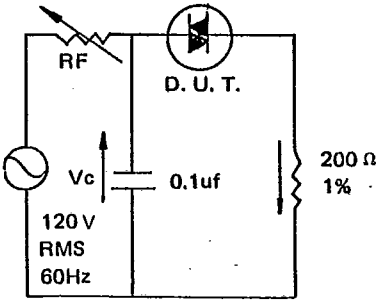


FIGURE 5- CIRCUIT USED TO MEASURE DIAC CHARACTERISTICS



* ADJUST FOR ONE FIRINGIN HALF CYCLE.

PACKAGING

T-90-20

Reel Packaging (Axial Lead Units)

DEVICE TYPE	COMPONENT SPACE (MM) "A"	TAPE SPACE (MM) "B"	REEL DIA (MM) "D"	QUANTITY (EA)		CARTON	
				REEL	CARTON	SIZE (MM)	WEIGHT (KG)
DO-41 DO-41L	5±0.5	52.4±1.5	326~336	5000	20K	355 x 355 x 355	10.5
DO-201AD	10±0.5	52.4±1.5	326~336	1200	4.8K	355 x 355 x 355	9.0
P6(Aleg)	10±0.5	52.4±1.5	326~336	700	2.8K	355 x 355 x 355	8.8

The C dimension of Fig. 3 is between 3.17mm and 635mm greater than the length of the component involved.

FIG. 1

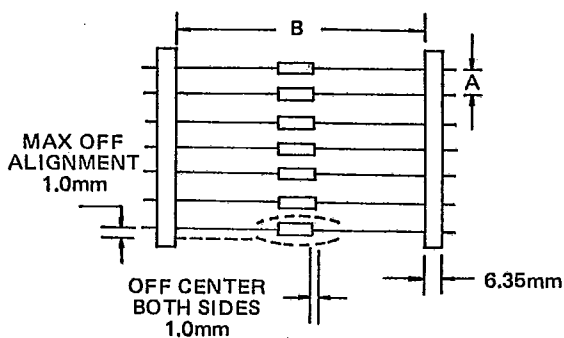


FIG. 2

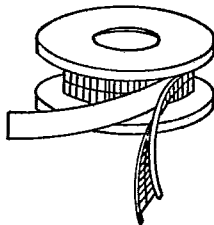
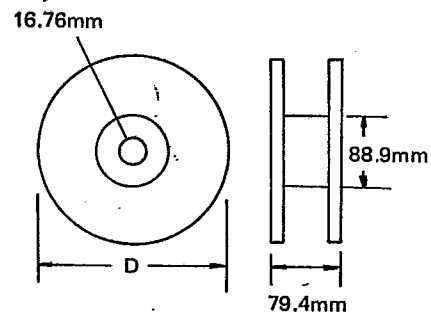


FIG. 3

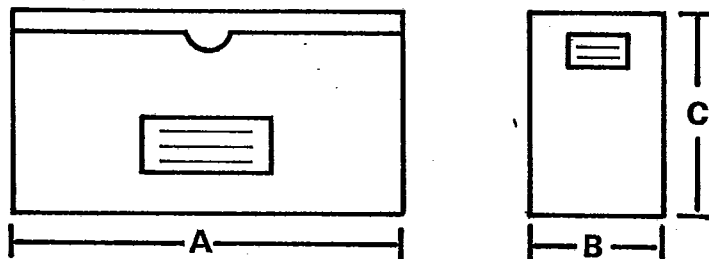


Bulk Packaging (Axial Lead Devices and Bridge Rectifiers)

DEVICE TYPE	PACKAGING SIZE (MM)		QUANTITY (EA)		APPROX GROSS WEIGHT (KG)	
	BOX	CARTON	BOX	CARTON	BOX	CARTON
DO-41 DO-41L	196 x 84 x 20	450 x 210 x 250	1000	50K	0.38	20
DO-201AD	305 x 93 x 59	355 x 355 x 355	1000	20K	1.35	28
P6(Aleg)	305 x 93 x 59	355 x 355 x 355	500	10K	1.2	24.5
PBM	357 x 125 x 60	530 x 360 x 340	1000	20K	1.5	32.3
PBDF	495 x 155 x 145	500 x 325 x 305	5000	20K	5.1	21.5
PBP	357 x 125 x 60	530 x 360 x 340	500	10K	1.5	31.5
PBL	375 x 220 x 155	470 x 385 x 455	1000	5K	5.7	30.5
PBPC-6	357 x 125 x 60	560 x 360 x 340	250	5K	1.1	22
PBPC-8	357 x 125 x 60	560 x 360 x 340	250	5K	1.7	35
KBPC	375 x 220 x 365	470 x 390 x 385	500	1K	15.1	31.5
KBPC-W	375 x 220 x 365	470 x 390 x 385	500	1K	14.5	30.0

AMMO BOX PACKAGING

BOX SIZE



Unit:m. m.

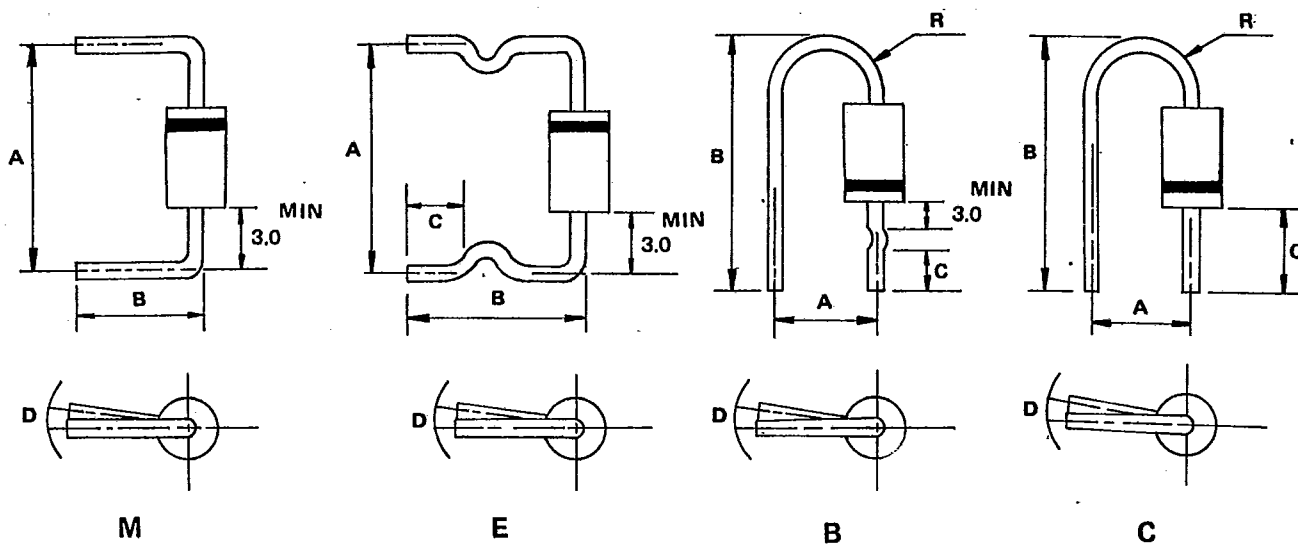
Packaging	Products Outline	Dimension *A*	Dimension *B*	Dimension *C*	Q'ty per BOX
26MM Horizontal Ammo Pack	DO-41 DO-41L(0.6mm Lead)	255	50	95	3K
					3K
52MM Horizontal Ammo Pack	DO-41and DO-41L DO 201AD	250	75	92	3K
					0.8K

CARTON SIZE

Unit:m. m.

Packaging	Products Outline	length	Width	High	Q'ty Per Carton
26MM Horizontal Ammo Pack	DO-41 DO-41L(0.6mm Lead)	330	310	268	42K
					48K
52MM Horizontal Ammo Pack	DO-41and DO-41L DO 201AD	355	355	340	12K
					12K

PREFORMED LEAD DRAWING



Case type	Preformed type	A (mm)		B (mm)		C (mm)		D (mm)		R (mm)	
		range	tolerance	range	tolerance	range	tolerance	range	tolerance	range	tolerance
D041	M	9.0-20.0	1.0	8.0-22.0	±0.5	—	—	1.5	max	—	—
	E	11.0-20.0	±1.0	11.0-16.0	±1.0	4.0-5.0	±0.5	1.5	max	—	—
	B	7.5	±0.5	19.0-22.0	±0.5	7.5	±0.5	1.5	max	2.5-4.0	Typ
	C	4.5	±0.8	18.0-19.0	±0.5	9.0	±0.5	1.5	max	2.5-4.0	Typ
D0201AD	M	15.0-20.0	±1.0	8.0-22.0	±1.0	—	—	2.0	max	—	—
	E	15.0-20.0	±1.0	10.0-22.0	±1.0	3.0-15.0	±0.5	2.0	max	—	—
P6(Aleg)	M	15.0-20.0	±1.0	8.0-22.0	±1.0	—	—	2.0	max	—	—