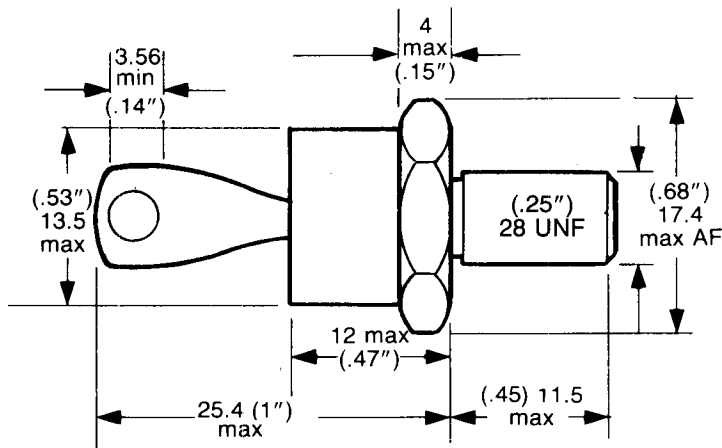


L6 Series

5 KW Voltage Limiting Diodes

A range of high power zener and avalanche surge suppressor diodes available to BS 9305-F-081 in a hermetically sealed DO5 package in both unipolar and bipolar configurations.

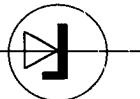
P_{surge} _____ 5KW; 1mS expo
 $P_{\text{max cont}}$ _____ 75W
 V_z _____ 5.1 to 200V
 $T_{\text{op \& stg}}$ _____ - 55 to + 175°C



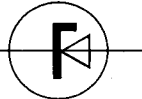
Case Outline SO16 (DO. 1) diam in mm (inch)

Available in the following configurations

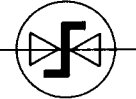
Stud
Cathode
Normal



Stud
Anode
Reverse



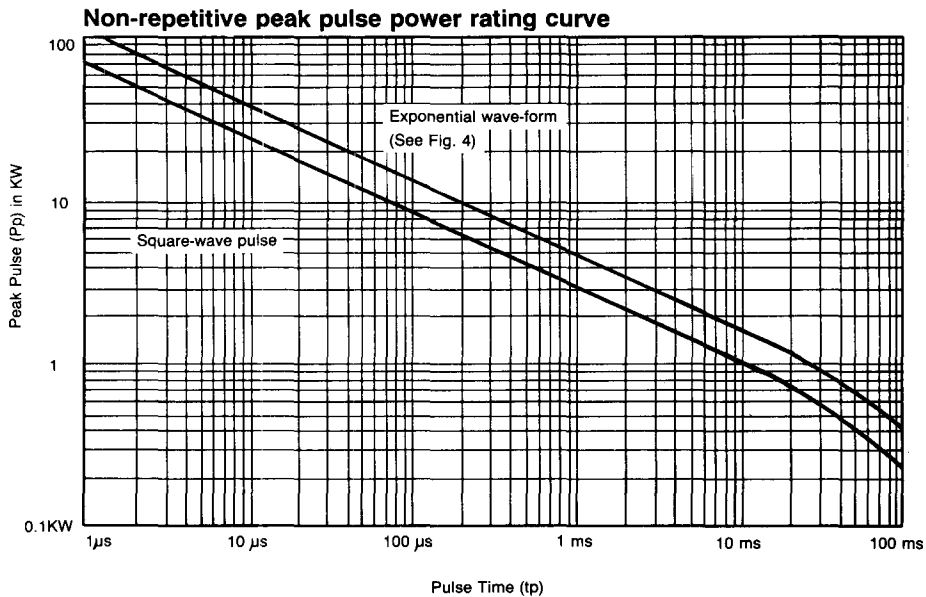
Double
Anode



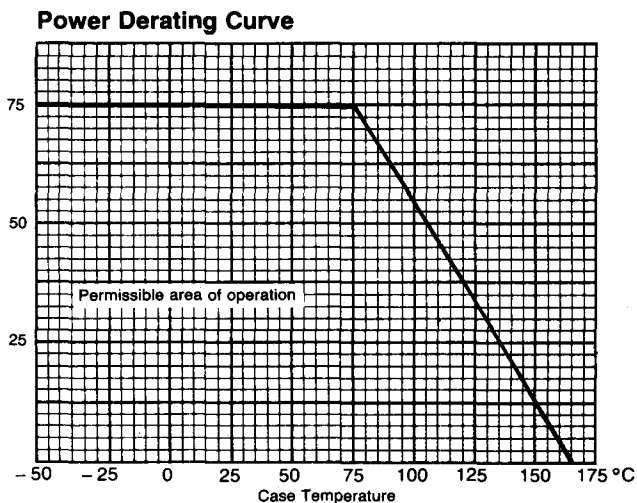
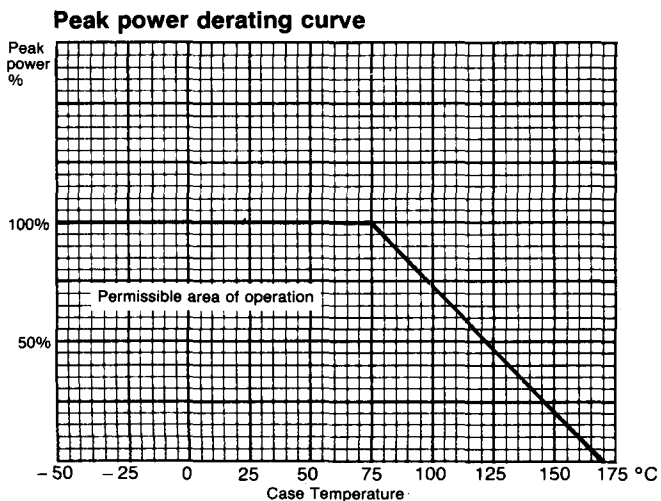
L6 Series

Electrical characteristics at 25°C

Type	Reverse Breakdown Voltage $B_V @ I_t$		Reverse Standoff Voltage V_R at max I_R		Max Clamping Voltage at peak Pulse Current				Max Temp Coef of B_V (% per °C)	Typical Capacitance at Standoff Voltage 1MHz (pF)
	(V)	(mA)	(V)	(mA)	V_{CL} @ Ipp		V_{CL} @ Ipp			
					V	A	V	A		
L6B5.1	4.8-5.4	25	4.2	15	7.0	150	8.0	200	-.02	19K
L6H5.4	5.3-5.3	25	4.7	15	7.0	100	7.5	200	-.01 + .02	18K
L6B5.6	5.3-5.5	25	4.7	15	7.0	100	8.0	200	-.01 + .02	18K
L6H6.2A	6.0-6.4	10	5.0	5.0	7.0	30	8	100	+.03	16K
L6B6.2	5.8-6.6	20	5.2	10	8.0	60	10.0	200	+.03	16K
L6B6.8	6.4-7.2	25	5.7	5	8.5	60	10.5	185	+.04	15K
L6B7.5	7.1-7.9	25	6.3	1.0	9.6	55	11.3	171	+.05	13K
L6B8.2	7.7-8.7	25	6.9	1.0	10.0	53	12.1	161	+.06	11K
L6B9.1	8.6-9.6	10	7.7	0.5	11.4	48	13.4	145	+.06	11K
L6B10	9.5-10.5	10	8.5	0.1	12.3	44	14.5	134	+.07	10K
L6B11	10.4-11.6	10	9.3	0.1	13.3	41	15.6	124	+.07	8K
L6B12	11.4-12.7	10	10.2	0.1	14.2	39	16.7	117	+.08	7.5K
L6B13	12.4-14.1	10	11.1	0.1	15.4	35	18.2	106	+.08	6.5K
L6B15	13.8-15.6	10	12.4	0.1	18.0	30	21.2	92.3	+.08	6.0K
L6B16	15.3-17.1	10	13.7	0.1	19.1	29	22.5	87.1	+.08	5.5K
L6B18	16.8-19.1	10	15.1	0.1	21.4	25	25.2	76.7	+.08	5.0K
L6B20	18.8-21.2	10	16.9	0.1	23.5	23	27.7	70.2	+.09	4.5K
L6B22	20.8-23.3	10	18.7	0.1	26.0	21	30.6	63.7	+.09	4.0K
L6B24	22.7-25.9	10	20.4	0.1	28.2	20	33.2	58.5	+.09	3.5K
L6B27	25.1-28.9	10	22.5	0.1	31.8	17	37.5	52.0	+.09	3.0K
L6B30	28.0-32.0	10	25.2	0.1	35.1	15	41.4	46.8	+.10	2.7K
L6B33	31.0-35.0	10	27.9	0.1	38.8	14	45.7	43.0	+.10	2.4K
L6B36	34.0-38.0	10	30.6	0.1	42.4	13	49.9	39.0	+.10	2.1K
L6B39	37.0-41.0	10	33.2	0.1	45.8	12	53.9	37.4	+.10	2.0K
L6B43	40.0-46.0	10	36.0	0.1	50.4	11	59.3	32.9	+.10	1.7K
L6B47	44.0-50.0	10	39.6	0.1	55.0	10	64.8	30.2	+.11	1.5K
L6B51	48.0-54.0	10	43.2	0.1	59.6	9.2	70.1	27.8	+.11	1.3K
L6B56	52.0-60.0	10	46.8	0.1	65.5	8.4	77.0	25.3	+.11	1.1K
L6B62	58.0-66.0	10	52.2	0.1	72.2	7.6	85.0	23.0	+.11	1.0K
L6B68	64.0-72.0	10	57.6	0.1	78.2	7.0	92.0	21.2	+.11	900
L6B75	70.0-79.0	10	63.0	0.1	87.5	6.3	103	19.0	+.11	800
L6B82	77.0-87.0	10	69.0	0.1	96.0	5.8	113	17.3	+.11	700
L6B91	85.0-96.0	10	76.0	0.1	106	5.2	125	15.6	+.11	600
L6B100	94.0-106	10	84.0	0.1	116	4.8	137	14.3	+.11	500
L6B110	104-116	10	93.0	0.1	129	4.3	152	12.9	+.11	400
L6B120	114-127	10	102	0.1	140	3.9	165	11.8	+.11	350
L6B130	124-141	10	111	0.1	152	3.6	179	10.9	+.11	350
L6B150	138-156	10	124	0.1	175	3.1	207	9.4	+.11	250
L6B160	153-171	10	137	0.1	195	2.8	230	8.4	+.11	200
L6B180	168-191	10	151	0.1	209	2.6	246	8.0	+.11	175
L6B200	188-212	10	169	0.1	233	2.4	274	7.2	+.11	150

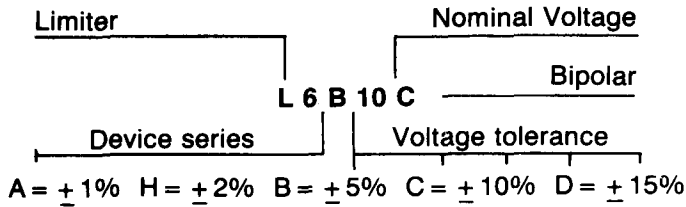


Note: Peak power defined as peak voltage times peak current



L6 Series

Code Interpretation/Ordering Information



Mechanical characteristics

CASE: Hermetically sealed DO5 outline

FINISH: All external surfaces are corrosion resistant and terminal solderable

IDENTIFICATION: Body marked with Type No., logo and zener symbol

POLARITY: Indicated by direction of zener symbol

WEIGHT: 14 grammes approximately excluding mounting kit

Electrical Characteristics

FORWARD VOLTAGE V_f 1.5V max @ $I_f \leq 10A$

V_z measured with pulse $\leq 100\mu S$

Turn-on time Unipolar $\leq 10^{-12}S$

Bipolar $\leq 5 \times 10^{-9}S$

All electrical characteristics 25°C unless otherwise stated.