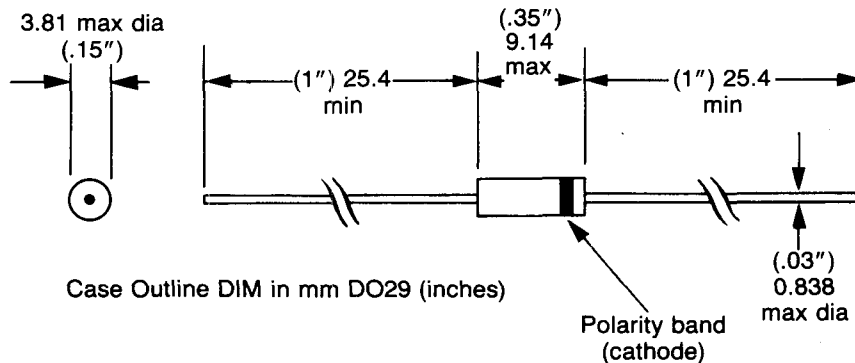


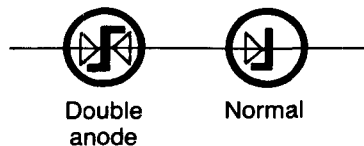
400W Voltage Limiting Diodes

A range of medium power zener and avalanche surge suppressor diodes available to BS 9305-F-078 in a hermetically sealed DO29 glass package in both unipolar and bipolar configurations.

P_{surge}	400W; 1mS expo
$P_{\text{max cont}}$	1W
V_z	6.1 to 200V
$T_{\text{op \& stg}}$	- 55 to + 175°C



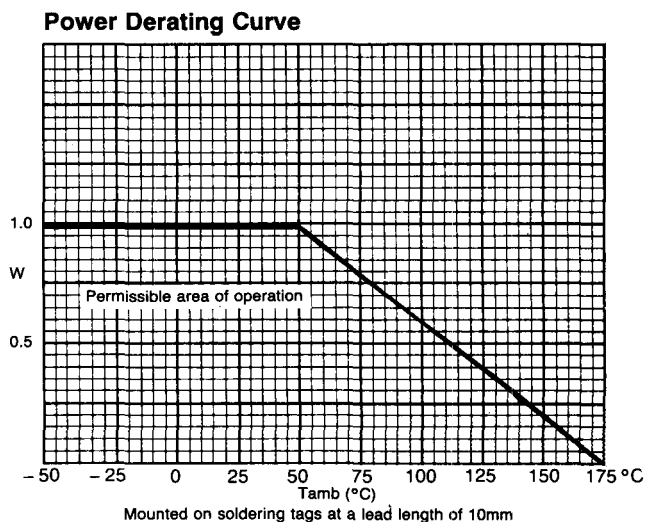
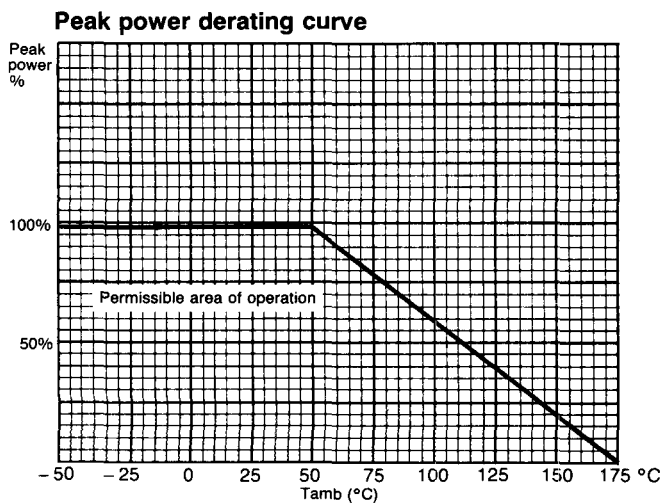
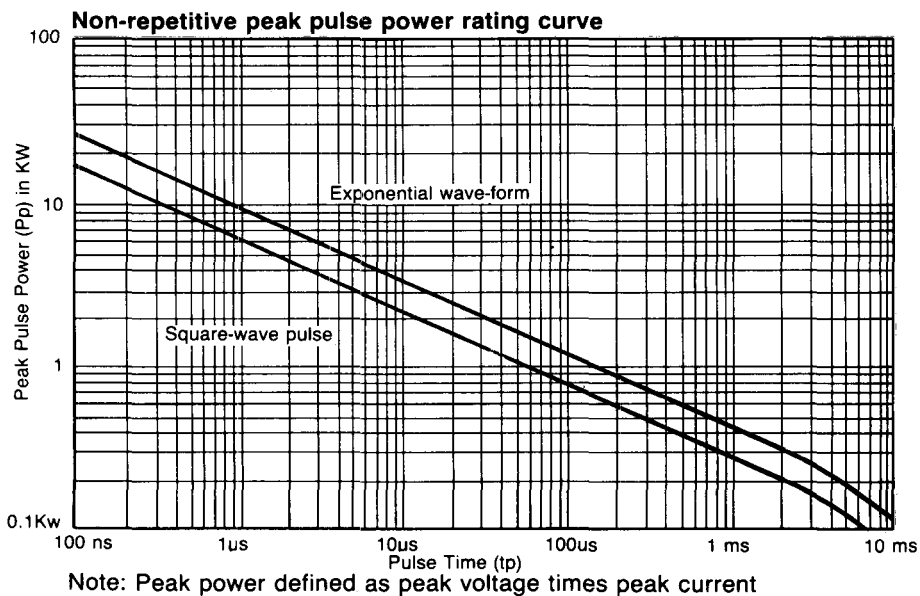
Available in the following configurations



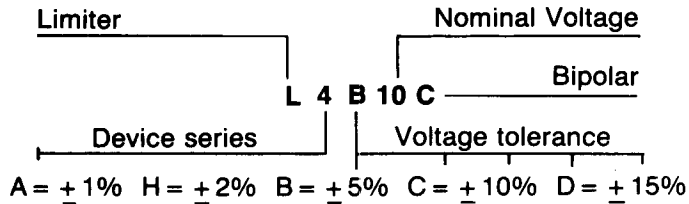
L4 Series

Electrical characteristics at 25°C

Type	Reverse Breakdown Voltage		Reverse Standoff Voltage		Max Clamping Voltage at peak pulse current				Max Temp coef of B.V. (% per °C)	Typical Capacitance at Standoff Voltage 1MHZ (pF)
	$B_V @ I_t$		$I_R @ V_R$		$V_{CL} @ I_{pp}$		$V_{CL} @ I_{pp}$			
	(V)	(mA)	(V)	(mA)	(V)	(A)	(V)	(A)		
L4B5.1	4.8-5.4	5	4.2	5	6.5	50	8.0	100	− .02	1.4K
L4B5.6	5.3-5.9	5	4.7	5	7.0	20	8.0	50	− .01 + .02	1.1K
L4B6.2	5.8-6.6	5	5.2	2	8.0	20	10.0	50	+ .03	950
L4B6.8	6.4-7.2	5	5.7	1	8.5	20	10.5	50	+ .04	850
L4B7.5	7.1-7.9	5	6.3	0.5	9.6	15	11.3	40	+ .05	750
L4B8.2	7.7-8.7	5	6.9	0.2	10.0	12	12.1	37	+ .06	650
L4B9.1	8.6-9.6	1	7.7	0.05	11.4	11	13.4	33	+ .06	600
L4B10	9.5-10.5	1	8.5	0.01	12.3	10	14.5	31	+ .07	550
L4B11	10.4-11.6	1	9.3	0.01	13.3	9.6	15.6	29.0	+ .07	475
L4B12	11.4-12.7	1	10.2	0.01	14.2	9.0	16.7	27.2	+ .08	450
L4B13	12.4-14.1	1	11.1	0.01	15.4	8.3	18.2	24.8	+ .08	400
L4B15	13.8-15.6	1	12.4	0.01	18.0	7.2	21.2	21.5	+ .08	375
L4B16	15.3-17.1	1	13.7	0.01	19.1	6.7	22.5	20.3	+ .08	350
L4B18	16.8-19.1	1	15.1	0.01	21.4	5.7	25.2	17.8	+ .08	300
L4B20	18.8-21.2	1	16.9	0.01	23.5	5.4	27.7	16.3	+ .09	250
L4B22	20.8-23.3	1	18.7	0.01	26.0	4.9	30.6	14.8	+ .09	200
L4B24	22.7-25.9	1	20.4	0.01	28.2	4.5	33.2	13.6	+ .09	180
L4B27	25.1-28.9	1	22.5	0.01	31.8	4.0	37.5	12.1	+ .09	150
L4B30	28.0-32.0	1	25.2	0.01	35.1	3.6	41.4	10.9	+ .10	140
L4B33	31-35	1	27.9	0.01	38.8	3.3	45.7	10.0	+ .10	130
L4B36	34-38	1	30.6	0.01	42.4	3.0	49.9	9.0	+ .10	120
L4B39	37-41	1	33.2	0.01	45.8	2.8	53.9	8.5	+ .10	110
L4B43	40-46	1	36.0	0.01	50.4	2.5	59.3	7.6	+ .10	100
L4B47	44-50	1	39.6	0.01	55.0	2.3	64.8	7.0	+ .11	67
L4B51	48-54	1	43.2	0.01	59.6	2.1	70.1	6.5	+ .11	54
L4B56	52-60	1	46.8	0.01	65.5	2.0	77.0	6.0	+ .11	49
L4B62	58-66	1	52.2	0.01	72.2	1.8	85.0	5.4	+ .11	44
L4B68	64-72	1	57.6	0.01	78.2	1.6	92.0	5.0	+ .11	40
L4B75	70-79	1	63	0.01	87.5	1.5	103	4.4	+ .11	36
L4B82	77-87	1	69	0.01	96.0	1.3	113	4.0	+ .11	33
L4B91	85-96	1	76	0.01	106	1.2	125	3.6	+ .11	29
L4B100	94-106	1	84	0.01	116	1.1	137	3.3	+ .11	27
L4B110	104-116	1	93	0.01	129	1.0	152	3.0	+ .11	24
L4B120	114-127	1	102	0.01	140	0.9	165	2.7	+ .11	21
L4B130	124-141	1	111	0.01	152	0.8	179	2.5	+ .11	19
L4B150	138-156	1	124	0.01	175	0.7	207	2.2	+ .11	17
L4B160	153-171	1	137	0.01	195	0.6	230	2.0	+ .11	14
L4B180	168-191	1	151	0.01	209	0.6	246	1.8	+ .11	13
L4B200	188-212	1	169	0.01	233	0.5	274	1.6	+ .11	12



Code Interpretation/Ordering Information



Mechanical characteristics

CASE: Hermetically sealed DO29 outline

FINISH: All external surfaces are corrosion resistant and leads solderable

IDENTIFICATION: Body marked with Type No. and logo

POLARITY: Cathode marked with band

WEIGHT: 0.47 grammes approximately

Electrical Characteristics

FORWARD VOLTAGE V_f 1.1V max at $I_f \leq 1A$

V_z measured with pulse $\leq 20mS$

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

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

All electrical characteristics 25°C unless otherwise stated.