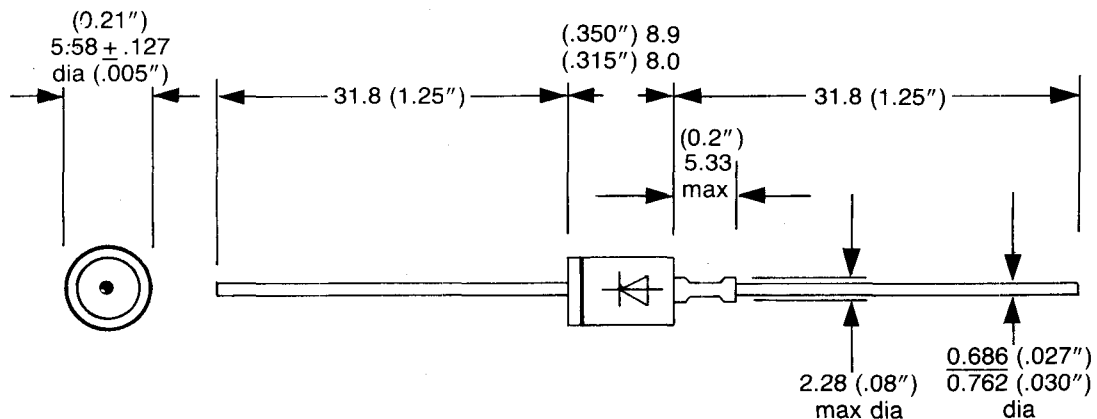


1.5KW Transient Absorption Zener Diode

A range of unipolar Protection diodes in a hermetically sealed metal and glass DO13 package.

P_{surge}	_____	1.5KW; 1mS expo
$P_{\text{max cont}}$	_____	1W
V_Z	_____	6.8-200V
t_{on}	_____	$\leq 10^{-12}\text{S}$
$T_{\text{op \& stg}}$	_____	- 65 to + 175°C



Case Outline dim in mm DO13

L13 Series

Electrical Characteristics at 25°C

JEDEC Type No.	SEMITECH Type No.	Breakdown Voltage VBR Volts			Break- down Current I _t mA	Reverse stand-off voltage V _R Volts	Max reverse leakage @ V _R I _{RA} μA	Max clamping voltage V _{CL} Volts	Max peak pulse current I _{zm}	Temp coef %/°C	Typical capacitance at 0 Volts f = 1MHZ pF
		Nominal	± 5% Voltage Tol								
IN5629A	L13B6v8	6.8	6.45	7.14	10	5.80	1000	10.5	143	+ .057	22000
IN5630A	L13B7v5	7.5	7.13	7.88	10	6.40	500	11.3	132	+ .061	19200
IN5631A	L13B8v2	8.2	7.79	8.61	10	7.02	200	12.1	124	+ .065	17400
IN5632A	L13B9v1	9.1	8.65	9.55	1	7.78	50	13.4	112	+ .068	14800
IN5633A	L13B10	10	9.5	10.5	1	8.55	10	14.5	103	+ .073	13000
IN5634A	L13B11	11	10.5	11.6	1	9.40	5	15.6	96.0	+ .075	11400
IN5635A	L13B12	12	11.4	12.6	1	10.2	5	16.7	90.0	+ .078	10200
IN5636A	L13B13	13	12.4	13.7	1	11.1	5	18.2	82.0	+ .081	8800
IN5637A	L13B15	15	14.3	15.8	1	12.8	5	21.2	71.0	+ .084	7800
IN5638A	L13B16	16	15.2	16.8	1	13.6	5	22.5	67.0	+ .086	7000
IN5639A	L13B18	18	17.1	18.9	1	15.3	5	25.2	59.5	+ .088	6200
IN5640A	L13B20	20	19.0	21.0	1	17.1	5	27.7	54.0	+ .090	5700
IN5641A	L13B22	22	20.9	23.1	1	18.8	5	30.6	49.0	+ .092	5100
IN5642A	L13B24	24	22.8	25.2	1	20.5	5	33.2	45.0	+ .094	4600
IN5643A	L13B27	27	25.7	28.4	1	23.1	5	37.5	40.0	+ .096	4200
IN5644A	L13B30	30	28.5	31.5	1	25.6	5	41.4	36.0	+ .097	3700
IN5645A	L13B33	33	31.4	34.7	1	28.2	5	45.7	33.0	+ .098	3250
IN5646A	L13B36	36	34.2	37.8	1	30.8	5	49.9	30.0	+ .099	2900
IN5647A	L13B39	39	37.1	41.0	1	33.3	5	53.9	28.0	+ .100	2700
IN5648A	L13B43	43	40.9	45.2	1	36.8	5	59.3	25.3	+ .101	2400
IN5649A	L13B47	47	44.7	49.4	1	40.2	5	64.8	23.2	+ .101	2200
IN5650A	L13B51	51	48.5	53.6	1	43.6	5	70.1	21.4	+ .102	2000
IN5651A	L13B56	56	53.2	58.8	1	47.8	5	77.0	19.5	+ .103	1850
IN5652A	L13B62	62	58.9	65.1	1	53.0	5	85.0	19.5	+ .104	1650
IN5653A	L13B68	68	64.6	71.4	1	58.1	5	92.0	16.3	+ .104	1500
IN5654A	L13B75	75	71.3	78.8	1	64.1	5	103	14.6	+ .105	1350
IN5655A	L13B82	82	77.9	86.1	1	70.1	5	113	13.3	+ .105	1250
IN5656A	L13B91	91	86.5	95.5	1	77.8	5	125	12.0	+ .106	1100
IN5657A	L13B100	100	95.0	105	1	85.5	5	137	11.0	+ .106	1000
IN5658A	L13B110	110	105	116	1	94.0	5	152	9.9	+ .107	920
IN5659A	L13B120	120	114	126	1	102	5	165	9.1	+ .107	840
IN5660A	L13B130	130	124	137	1	111	5	179	8.4	+ .107	780
IN5661A	L13B150	150	143	158	1	128	5	207	7.2	+ .108	660
IN5662A	L13B160	160	152	168	1	136	5	219	6.8	+ .108	620
IN5663A	L13B170	170	162	179	1	145	5	234	6.4	+ .108	600
IN5664A	L13B180	180	171	189	1	154	5	246	6.1	+ .108	560
IN5665A	L13B200	200	190	210	1	171	5	274	5.5	+ .108	500

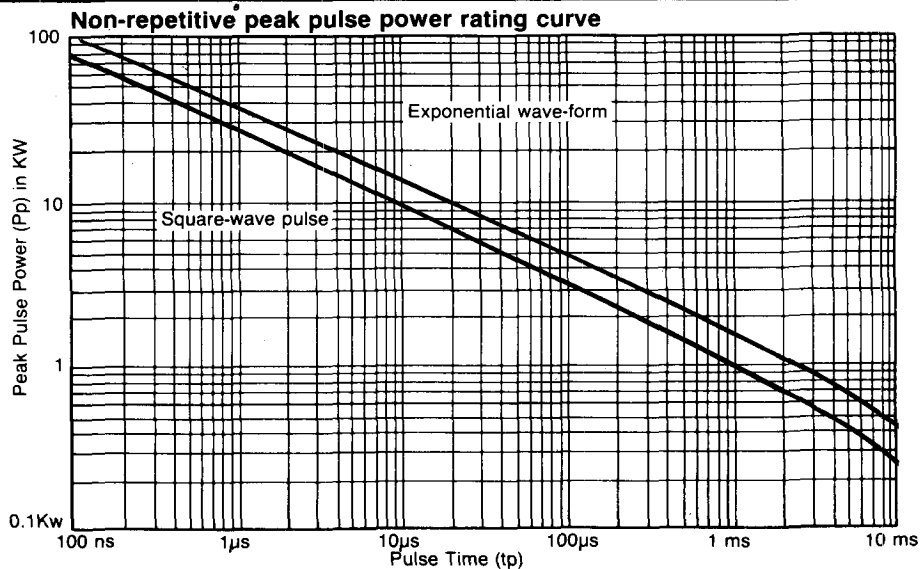
Transient Absorption Zener Diode

L13 Series

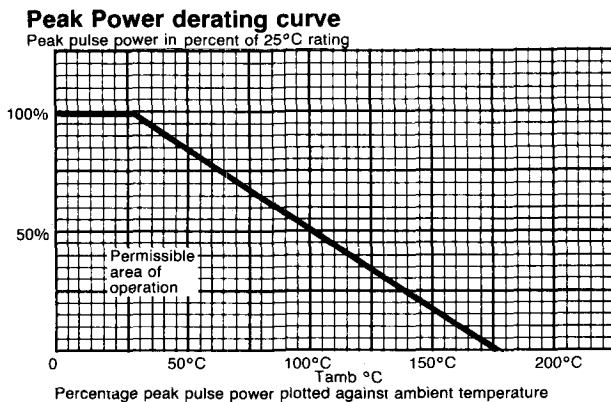
Electrical Characteristics at 25°C

JEDEC Type No.	SEMITRON Type No.	Breakdown Voltage V _{BR} Volts			Break- down Current I _I mA	Reverse stand-off voltage V _R Volts	Max reverse leakage @ V _R I _R μA	Max clamping voltage V _{CL} Volts	Max peak pulse current I _{zsm}	Temp coef %/°C	Typical capacitance at 0 Volts f = 1MHZ pF
		Nominal	± 10% Voltage Tol								
IN5629	L13C6v8	6.8	6.12	7.48	10	5.50	1000	10.8	139	+ .057	22000
IN5630	L13C7v5	7.5	6.75	8.25	10	6.05	500	11.7	128	+ .061	19200
IN5631	L13C8v2	8.2	7.38	9.02	10	6.63	200	12.5	120	+ .065	17400
IN5632	L13C9v1	9.1	8.19	10.00	1	7.37	50	13.8	109	+ .068	14800
IN5633	L13C10	10	9.00	11.0	1	8.10	10	15.0	100	+ .073	13000
IN5634	L13C11	11	9.90	12.1	1	8.92	5	16.2	93	+ .075	11400
IN5635	L13C12	12	10.8	13.2	1	9.72	5	17.3	87	+ .078	10200
IN5636	L13C13	13	11.7	14.3	1	10.5	5	19.0	79	+ .081	8800
IN5637	L13C15	15	13.5	16.5	1	12.1	5	22.0	68	+ .084	7800
IN5638	L13C16	16	14.4	17.6	1	12.9	5	23.5	64	+ .086	7000
IN5639	L13C18	18	16.2	19.8	1	14.5	5	26.5	56.5	+ .088	6200
IN5640	L13C20	20	18.0	22.0	1	16.2	5	29.1	51.5	+ .090	5700
IN5641	L13C22	22	19.8	24.2	1	17.8	5	31.9	47	+ .092	5100
IN5642	L13C24	24	21.6	26.4	1	19.4	5	34.7	43	+ .094	4600
IN5643	L13C27	27	24.3	29.7	1	21.8	5	39.1	38.5	+ .096	4200
IN5644	L13C30	30	27.0	33.0	1	24.3	5	43.5	34.5	+ .097	3700
IN5645	L13C33	33	29.7	36.3	1	26.8	5	47.7	31.5	+ .098	3250
IN5646	L13C36	36	32.4	39.6	1	29.1	5	52.0	29	+ .099	2900
IN5647	L13C39	39	35.1	42.9	1	31.6	5	56.4	26.5	+ .100	2700
IN5648	L13C43	43	38.7	47.3	1	34.8	5	61.9	24	+ .101	2400
IN5649	L13C47	47	42.3	51.7	1	38.1	5	67.8	22.2	+ .101	2200
IN5650	L13C51	51	45.9	56.1	1	41.3	5	73.5	20.4	+ .102	2000
IN5651	L13C56	56	50.4	61.6	1	45.4	5	80.5	18.6	+ .103	1850
IN5652	L13C62	62	55.8	68.2	1	50.2	5	89.0	16.9	+ .104	1650
IN5653	L13C68	68	61.2	74.8	1	55.1	5	98.0	15.3	+ .104	1500
IN5654	L13C75	75	67.5	82.5	1	60.7	5	108	13.9	+ .105	1350
IN5655	L13C82	82	73.8	90.2	1	66.4	5	118	12.7	+ .105	1250
IN5656	L13C91	91	81.9	100	1	73.7	5	131	11.4	+ .106	1100
IN5657	L13C100	100	90.0	110	1	81.0	5	144	10.4	+ .106	1000
IN5658	L13C110	110	99.0	121	1	89.2	5	158	9.5	+ .107	920
IN5659	L13C120	120	108	132	1	97.2	5	173	8.7	+ .107	840
IN5660	L13C130	130	117	143	1	105	5	187	8.0	+ .107	780
IN5661	L13C150	150	135	165	1	121	5	215	7.0	+ .108	660
IN5662	L13C160	160	144	176	1	130	5	230	6.5	+ .108	620
IN5663	L13C170	170	153	187	1	138	5	244	6.2	+ .108	600
IN5664	L13C180	180	162	198	1	146	5	258	5.8	+ .108	560
IN5665	L13C200	200	180	220	1	162	5	287	5.2	+ .108	500

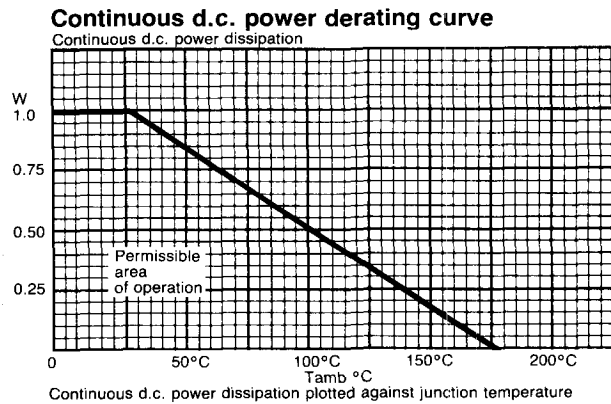
L13 Series



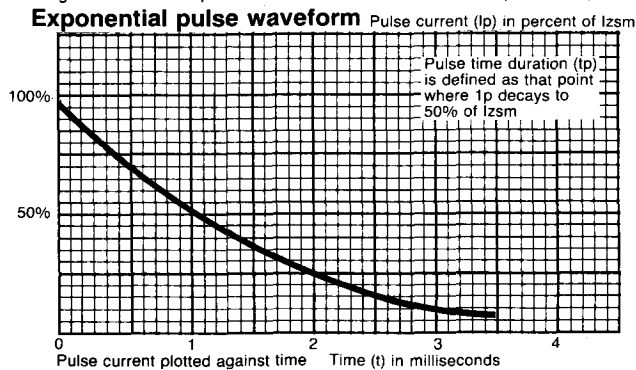
Note: Peak power defined as peak voltage times peak current



Percentage peak pulse power plotted against ambient temperature



Continuous d.c. power dissipation plotted against junction temperature



Mechanical Characteristics

CASE: Hermetically sealed metal and glass DO13

FINISH: All external surfaces are corrosion resistant and leads solderable

POLARITY: Cathode connected to case

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

THERMAL RESISTANCE: 100°C/W junction to ambient

WEIGHT: 1.4 grammes approximately

Electrical Characteristics

FORWARD SURGE CURRENT: 167 Amps max for 10mS

PULSE REPETITION RATE: 0.01%

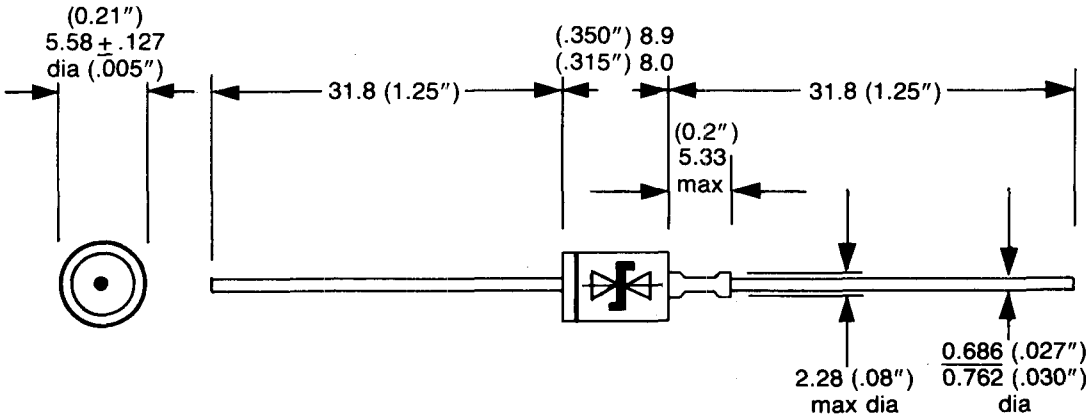
FORWARD VOLTAGE: V_f 1.2V @ $I_f \leq 1$ Amp

VBR measured with pulse = 20mS

1.5KW Bi-directional Transient
Absorption Zener Diode

A range of bipolar protection diodes in a hermetically sealed metal and glass DO13 package

P_{surge}	1.5KW; 1mS expo
$P_{\text{max cont}}$	1W
V_Z	7.5-200V
T_{on}	$\leq 5 \times 10^{-12}\text{S}$
$T_{\text{op \& stg}}$	- 65 to + 175°C



L13 Series

Electrical Characteristics at 25°C

JEDEC Type No.	SEMITRON Type No.	Breakdown Voltage V _{BR} Volts		Break- down Current I _i mA	Reverse stand-off voltage V _R Volts	Max reverse leakage AT V _R I _R μA	Max clamping voltage V _{CL} Volts	Max peak pulse current I _{zsm}	Temp coef %/°C	Typical capacitance at 0 Volts f = 1MHZ pF
		Nominal	± 5% Voltage Tol							
IN6036A	L13B7v5C	7.5	7.13 7.88	10	6.0	1000	11.3	132	+ .061	9600
IN6037A	L13B8v2C	8.2	7.79 8.61	10	7.0	500	12.1	124	+ .065	8700
IN6038A	L13B9v1C	9.1	8.65 9.55	10	7.5	200	13.4	112	+ .068	7400
IN6039A	L13B10C	10	9.5 10.5	1	8.5	50	14.5	103	+ .073	6500
IN6040A	L13B11C	11	10.5 11.6	1	9.0	10	15.6	96	+ .075	5700
IN6041A	L13B12C	12	11.4 12.6	1	10.0	5	16.7	90	+ .078	5100
IN6042A	L13B13C	13	12.4 13.7	1	11.0	5	18.2	82	+ .081	4400
IN6043A	L13B15C	15	14.3 15.8	1	12.0	5	21.2	71	+ .084	3900
IN6044A	L13B16C	16	15.2 16.8	1	13.0	5	22.5	67	+ .086	3500
IN6045A	L13B18C	18	17.1 18.9	1	15.0	5	25.2	59.5	+ .088	3100
IN6046A	L13B20C	20	19.0 21.0	1	17.0	5	27.7	54	+ .090	2850
IN6047A	L13B22C	22	20.9 23.1	1	18.0	5	30.6	49	+ .092	2550
IN6048A	L13B24C	24	22.8 25.2	1	20.0	5	33.2	45	+ .094	2300
IN6049A	L13B27C	27	25.7 28.4	1	22.0	5	37.5	40	+ .096	2100
IN6050A	L13B30C	30	28.5 31.5	1	25.0	5	41.4	36	+ .097	1850
IN6051A	L13B33C	33	31.4 34.7	1	28.0	5	45.7	33	+ .098	1600
IN6052A	L13B36C	36	34.2 37.8	1	30.0	5	49.9	30	+ .099	1450
IN6053A	L13B39C	39	37.1 41.0	1	33.0	5	53.9	28	+ .100	1350
IN6054A	L13B43C	43	40.9 45.2	1	36.0	5	59.3	25.3	+ .101	1200
IN6055A	L13B47C	47	44.7 49.4	1	40.0	5	64.8	23.2	+ .101	1100
IN6056A	L13B51C	51	48.5 53.6	1	43.0	5	70.1	21.4	+ .102	1000
IN6057A	L13B56C	56	53.2 58.8	1	47.0	5	77.0	19.5	+ .103	920
IN6058A	L13B62C	62	58.9 65.1	1	53.0	5	85.0	17.7	+ .104	8200
IN6059A	L13B68C	68	64.6 71.4	1	58.0	5	92.0	16.3	+ .104	750
IN6060A	L13B75C	75	71.3 78.8	1	64.0	5	103	14.6	+ .105	670
IN6061A	L13B82C	82	77.9 86.1	1	70.0	5	113	13.3	+ .105	620
IN6062A	L13B91C	91	86.5 95.5	1	75.0	5	125	12.0	+ .106	550
IN6063A	L13B100C	100	95 105	1	82.0	5	137	11.0	+ .106	500
IN6064A	L13B110C	110	105 116	1	94.0	5	152	9.9	+ .107	460
IN6065A	L13B120C	120	114 126	1	100	5	168	8.9	+ .107	420
IN6066A	L13B130C	130	124 137	1	110	5	182	8.2	+ .107	390
IN6067A	L13B150C	150	143 158	1	128	5	213	7.0	+ .108	330
IN6068A	L13B170C	170	162 179	1	145	5	245	6.1	+ .108	310
IN6069A	L13B180C	180	171 189	1	150	5	261	5.7	+ .108	300
IN6070A	L13B190C	190	181 200	1	160	5	278	5.4	+ .108	280
IN6071A	L13B200C	200	190 210	1	170	5	294	5.1	+ .108	250
IN6072A	L13B220C	220	209 231	1	185	5	328	4.6	+ .108	230

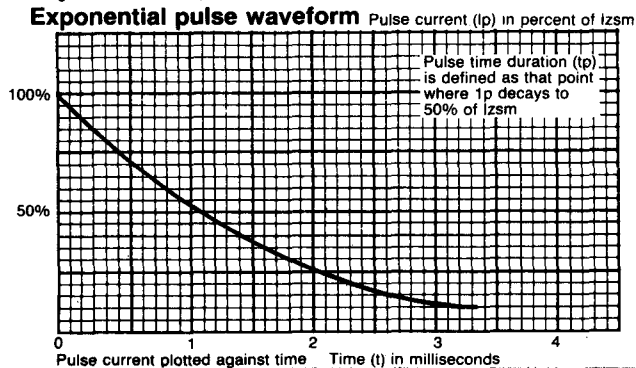
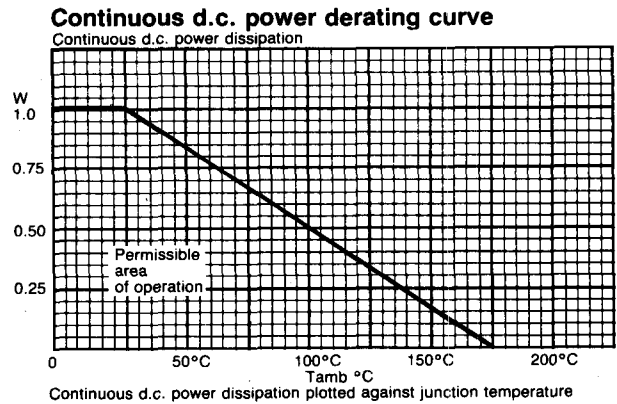
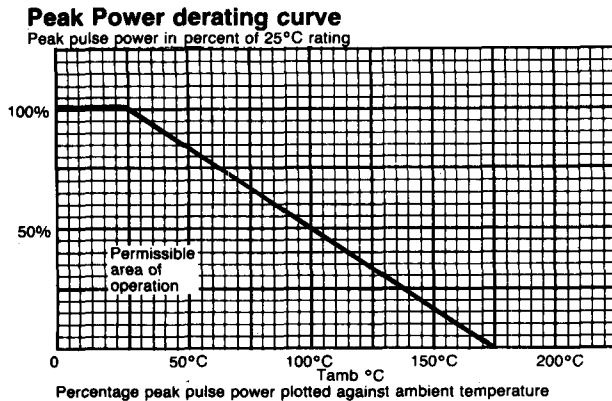
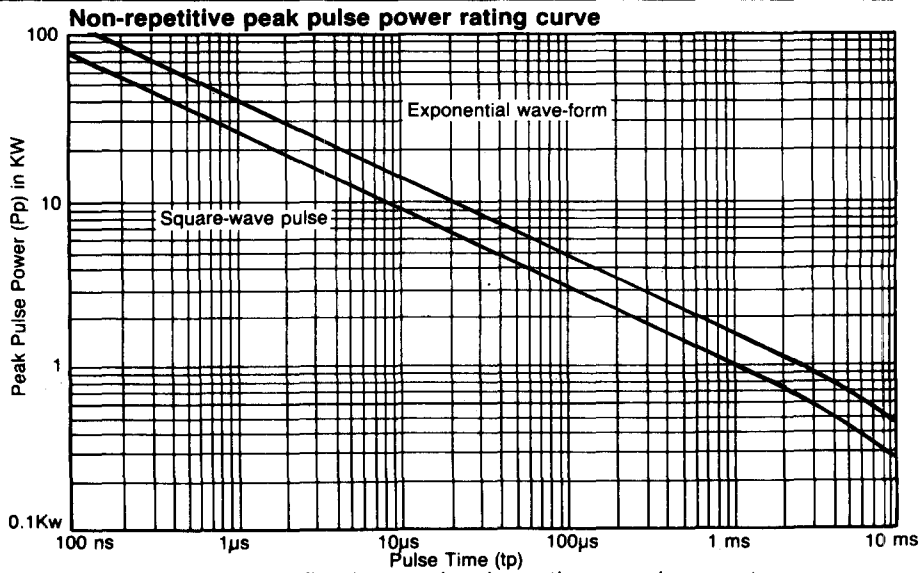
Transient Absorption Zener Diode

L13 Series

Electrical Characteristics at 25°C

JEDEC Type No.	SEMITRON Type No.	Breakdown Voltage V _{BR} Volts			Break- down Current I _t mA	Reverse stand-off voltage V _R Volts	Max reverse leakage AT V _R I _{IR} μA	Max clamping voltage V _{CL} Volts	Max peak pulse current I _{zsm}	Temp coef %/°C	Typical capacitance at 0 Volts f= 1MHz pF
		Nominal	+ 10% Voltage Tol								
IN6036	L13C7v5C	7.5	6.75	8.25	10	5.5	1000	11.7	128	+ .061	9600
IN6037	L13C8v2C	8.2	7.38	9.02	10	6.5	500	12.5	120	+ .065	8700
IN6038	L13C9v1C	9.1	8.19	10.0	10	7.0	200	13.8	109	+ .068	7400
IN6039	L13C10C	10	9.00	11.0	1	8.0	50	15.0	100	+ .073	6500
IN6040	L13C11C	11	9.9	12.1	1	8.5	10	16.2	93	+ .075	5700
IN6041	L13C12C	12	10.8	13.2	1	9.0	5	17.3	87	+ .078	5100
IN6042	L13C13C	13	11.7	14.3	1	10.0	5	19.0	79	+ .081	4400
IN6043	L13C15C	15	13.5	16.5	1	11.0	5	22.0	68	+ .084	3900
IN6044	L13C16C	16	14.4	17.6	1	12.0	5	23.5	64	+ .086	3500
IN6045	L13C18C	18	16.2	19.8	1	14.0	5	26.5	56.5	+ .088	3100
IN6046	L13C20C	20	18.0	22.0	1	16.0	5	29.1	51.5	+ .090	2850
IN6047	L13C22C	22	19.8	24.2	1	17.0	5	31.9	47	+ .092	2550
IN6048	L13C24C	24	21.6	26.4	1	19.0	5	34.7	43	+ .094	2300
IN6049	L13C27C	27	24.3	29.7	1	21.0	5	39.1	38.5	+ .096	2100
IN6050	L13C30C	30	27.0	33.0	1	24.0	5	43.5	34.5	+ .097	1850
IN6051	L13C33C	33	29.7	36.3	1	26.0	5	47.7	31.5	+ .098	1600
IN6052	L13C36C	36	32.4	39.6	1	29.0	5	52.0	29	+ .099	1450
IN6053	L13C39C	39	35.1	42.9	1	31.0	5	56.4	26.5	+ .100	1350
IN6054	L13C43C	43	38.7	47.3	1	34.0	5	61.9	24	+ .101	1200
IN6055	L13C47C	47	42.3	51.7	1	38.0	5	67.8	22.2	+ .101	1100
IN6056	L13C51C	51	45.9	56.1	1	41.0	5	73.5	20.4	+ .102	1000
IN6057	L13C56C	56	50.4	61.6	1	45.0	5	80.5	18.6	+ .103	920
IN6058	L13C62C	62	55.8	68.2	1	48.0	5	89.0	16.9	+ .104	820
IN6059	L13C68C	68	61.2	74.8	1	55.0	5	98.0	15.3	+ .104	750
IN6060	L13C75C	75	67.5	82.5	1	60.0	5	108	13.9	+ .105	670
IN6061	L13C82C	82	73.8	90.2	1	66.0	5	118	12.7	+ .105	620
IN6062	L13C91C	91	81.9	100	1	73.0	5	131	11.4	+ .106	550
IN6063	L13C100C	100	90.0	110	1	81.0	5	144	10.4	+ .106	500
IN6064	L13C110C	110	99.0	121	1	90.0	5	158	9.5	+ .107	460
IN6065	L13C120C	120	108	132	1	95.0	5	176	8.5	+ .107	420
IN6066	L13C130C	130	117	143	1	105	5	191	7.8	+ .107	390
IN6067	L13C150C	150	135	165	1	121	5	223	6.7	+ .108	330
IN6068	L13C170C	170	153	187	1	137	5	258	5.8	+ .108	310
IN6069	L13C180C	180	162	198	1	145	5	274	5.5	+ .108	300
IN6070	L13C190C	190	171	209	1	155	5	292	5.1	+ .108	280
IN6071	L13C200C	200	180	220	1	165	5	308	4.9	+ .108	250
IN6072	L13C220C	220	198	242	1	175	5	344	4.3	+ .108	230

L13 Series



Mechanical Characteristic

CASE: Hermetically sealed metal and glass DO13

FINISH: All external surfaces are corrosion resistant and leads solderable

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

THERMAL RESISTANCE: 100°C/W junction to ambient

WEIGHT: 1.4 grammes approximately

Electrical Characteristics

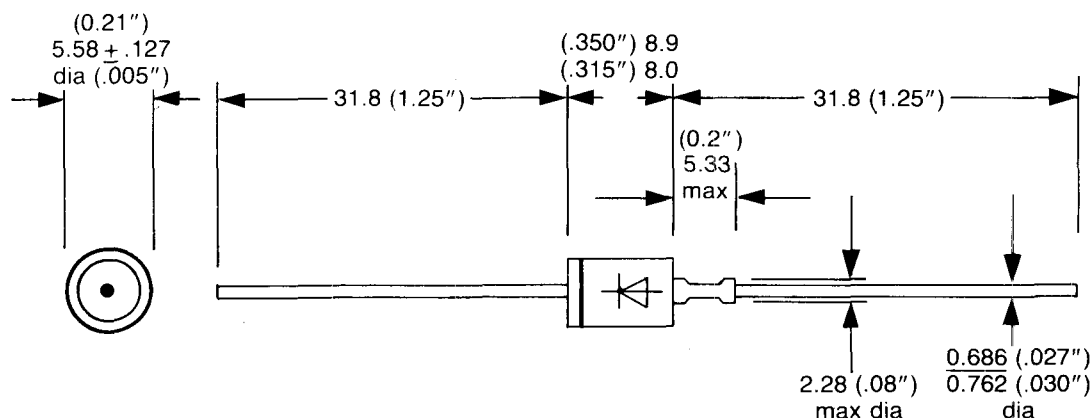
PULSE REPETITION RATE: 0.01%

V_{BR} measured with pulse = 20mS

Low Capacitance 1.5KW Transient Absorption Zener Diode

A range of low capacitance unipolar protection diodes in a hermetically sealed metal and glass DO13 package

P_{surge}	1.5KW; 1mS expo
$P_{\text{max cont}}$	1W
V_R	6.5-170V
T_{on}	$\leq 5 \times 10^{-9}\text{S}$
$T_{\text{op \& stg}}$	- 65 to + 175°C



Case Outline dim in mm DO13

Circuit Configuration



L13 Series

Electrical Characteristics at 25°C

Part Number	Reverse Stand-off Voltage V_R Volts	Breakdown Voltage B_{VO} Volts			Maximum Reverse leakage @ V_R I_R μA	Maximum clamping voltage @ I_{PP} V_{CL} Volts	Max. Peak pulse current (Fig 3) I_{PP} Amps	Capacitance @ 0 Volts pF	Working Inverse Blocking Voltage V_{WIB} Volts	Inverse Blocking Leakage Current @ V_{RS} I_{PP} mA	Peak Inverse Blocking Voltage V_{PIB} Volts
		Min.	Max.	mA							
L13B6v5L	6.5	7.22	7.98	10	1000	11.2	100	100	75	1	100
L13B7v0L	7.0	7.78	8.60	10	500	12.0	100	100	75	1	100
L13B7v5L	7.5	8.33	9.21	10	250	12.9	100	100	75	1	100
L13B8v0L	8.0	8.89	9.83	1	100	13.6	100	100	75	1	100
L13B8v5L	8.5	9.44	10.4	1	50	14.4	100	100	75	1	100
L13B9v0L	9.0	10.0	11.1	1	10	15.4	97	100	75	1	100
L13B10L	10	11.1	12.3	1	5	17.0	88	100	75	1	100
L13B11L	11	12.2	13.5	1	5	18.2	82	100	75	1	100
L13B12L	12	13.3	14.7	1	5	19.9	75	100	75	1	100
L13B13L	13	14.4	15.9	1	5	21.5	70	100	75	1	100
L13B14L	14	15.6	17.2	1	5	23.2	65	100	75	1	100
L13B15L	15	16.7	18.5	1	5	24.4	61	100	75	1	100
L13B16L	16	17.8	19.7	1	5	26.0	57	100	75	1	100
L13B17L	17	18.9	20.9	1	5	27.6	54	100	75	1	100
L13B18L	18	20.0	22.1	1	5	29.2	51	100	75	1	100
L13B20L	20	22.2	24.5	1	5	32.4	46	100	75	1	100
L13B22L	22	24.4	26.9	1	5	35.5	42	100	75	1	100
L13B24L	24	26.7	29.5	1	5	38.9	39	100	75	1	100
L13B26L	26	28.9	31.9	1	5	42.1	36	100	75	1	100
L13B28L	28	31.1	34.4	1	5	45.5	33	100	75	1	100
L13B30L	30	33.3	36.8	1	5	48.4	31	100	75	1	100
L13B33L	33	36.7	40.6	1	5	53.3	28.1	100	75	1	100
L13B36L	36	40.0	44.2	1	5	58.1	25.8	100	75	1	100
L13B40L	40	44.4	49.1	1	5	64.5	23.3	100	75	1	100
L13B43L	43	47.8	52.8	1	5	69.4	21.6	100	150	1	200
L13B45L	45	50.0	55.3	1	5	72.7	20.6	100	150	1	200
L13B48L	48	53.3	58.9	1	5	77.4	19.4	100	150	1	200
L13B51L	51	56.7	62.7	1	5	82.4	18.2	100	150	1	200
L13B54L	54	60.0	66.3	1	5	87.1	17.2	100	150	1	200
L13B58L	58	64.4	71.2	1	5	93.6	16.0	100	150	1	200
L13B60L	60	66.7	73.7	1	5	96.8	15.5	90	150	1	200
L13B64L	64	71.1	78.6	1	5	103.0	14.6	90	150	1	200
L13B70L	70	77.8	86.0	1	5	113	13.3	90	150	1	200
L13B75L	75	83.3	92.1	1	5	121	12.4	90	150	1	200
L13B80L	80	88.7	98.0	1	5	129	11.6	90	150	1	200
L13B90L	90	100	111	1	5	146	10.3	90	300	1	200
L13B100L	100	111	123	1	5	162	9.3	90	300	1	200
L13B110L	110	122	135	1	5	178	8.4	90	300	1	400
L13B120L	120	133	147	1	5	193	7.8	90	300	1	400
L13B130L	130	144	159	1	5	209	7.2	90	300	1	400
L13B150L	150	167	185	1	5	243	6.2	90	300	1	400
L13B160L	160	178	197	1	5	259	5.8	90	300	1	400
L13B170L	170	189	209	1	5	275	5.4	90	300	1	400

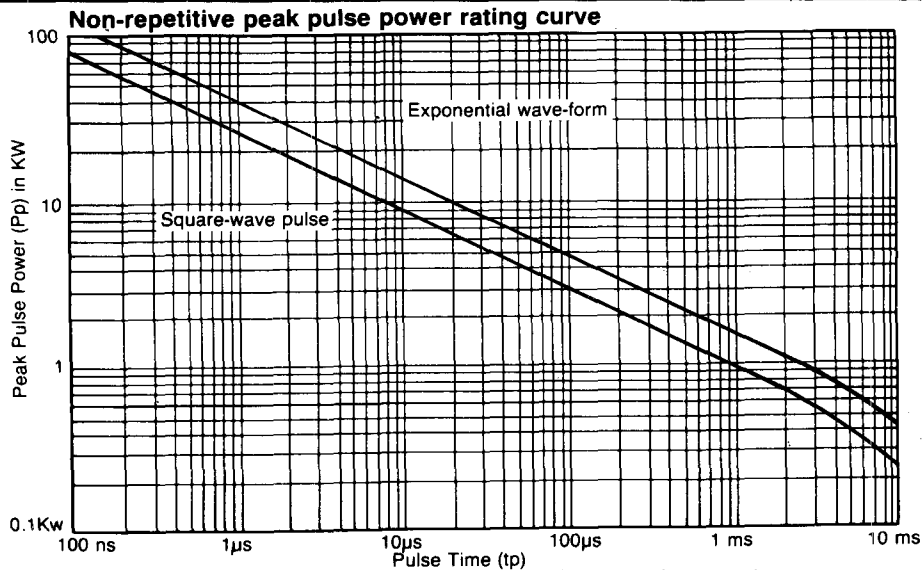
Transient Absorption Zener Diode

L13 Series

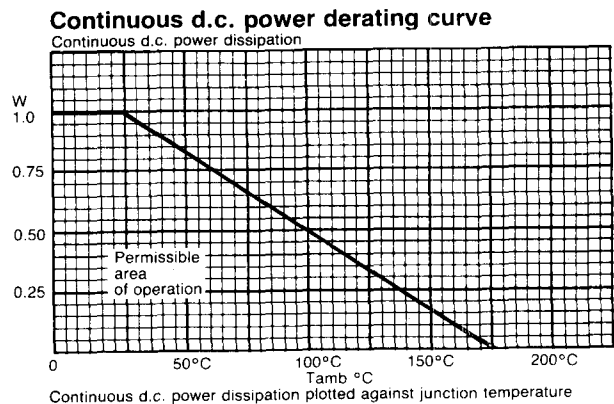
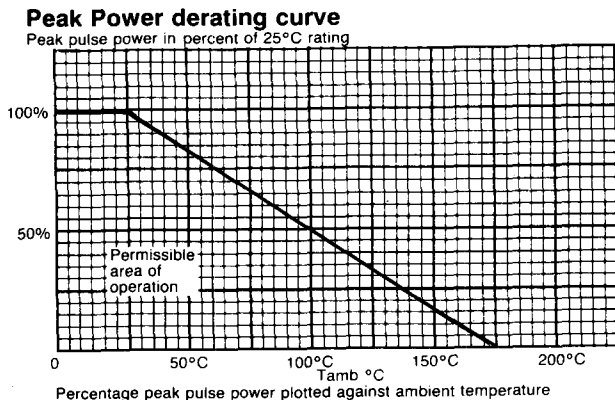
Electrical Characteristics at 25°C

Part Number	Reverse Stand-off Voltage V_R Volts	Breakdown Voltage B_V @ I_t Volts			Maximum Reverse leakage @ V_R I_R μA	Maximum clamping voltage @ I_{PP} V_{CL} Volts	Max. Peak pulse current (Fig 3) I_{PP} Amps	Capacitance @ 0 Volts pF	Working Inverse Blocking Voltage V_{WIB} Volts	Inverse Blocking Leakage Current @ V_{RS} I_{PP} mA	Peak Inverse Blocking Voltage V_{PIB} Volts
		Min.	Max.	mA							
L13C7v0L	7.0	7.78	9.51	10	500	13.3	100	100	75	1	100
L13C7v5L	7.5	8.33	10.2	10	250	14.3	100	100	75	1	100
L13C8v0L	8.0	8.89	10.9	1	100	15.0	100	100	75	1	100
L13C8v5L	8.5	9.44	11.5	1	50	15.9	94	100	75	1	100
L13C9v0L	9.0	10.0	12.2	1	10	16.9	89	100	75	1	100
L13C10L	10	11.1	13.6	1	5	18.8	80	100	75	1	100
L13C11L	11	12.2	14.9	1	5	20.1	74	100	75	1	100
L13C12L	12	13.3	16.3	1	5	22.0	68	100	75	1	100
L13C13L	13	14.4	17.6	1	5	23.8	63	100	75	1	100
L13C14L	14	15.6	19.1	1	5	25.8	58	100	75	1	100
L13C15L	15	16.7	20.4	1	5	26.9	58	100	75	1	100
L13C16L	16	17.8	21.8	1	5	28.8	52	100	75	1	100
L13C17L	17	18.9	23.1	1	5	30.5	49	100	75	1	100
L13C18L	18	20.0	24.4	1	5	32.2	46	100	75	1	100
L13C20L	20	22.2	27.1	1	5	35.8	42	100	75	1	100
L13C22L	22	24.4	29.8	1	5	39.4	38	100	75	1	100
L13C24L	24	26.7	32.6	1	5	43.0	35	100	75	1	100
L13C26L	26	28.9	35.3	1	5	46.6	32	100	75	1	100
L13C28L	28	31.1	38.0	1	5	50.1	30	100	75	1	100
L13C30L	30	33.3	40.7	1	5	53.5	28	100	75	1	100
L13C33L	33	36.7	44.9	1	5	59.0	25.4	100	75	1	100
L13C36L	36	40.0	48.9	1	5	64.3	23.3	100	75	1	100
L13C40L	40	44.4	54.3	1	5	71.4	21.0	100	75	1	100
L13C43L	43	47.8	58.4	1	5	76.7	19.5	100	150	1	200
L13C45L	45	50.0	61.1	1	5	80.3	18.7	100	150	1	200
L13C48L	48	53.3	65.1	1	5	85.5	17.5	100	150	1	200
L13C51L	51	56.7	69.3	1	5	91.1	16.5	100	150	1	200
L13C54L	54	60.0	73.3	1	5	96.3	15.6	100	150	1	200
L13C58L	58	64.4	78.7	1	5	103.0	14.6	100	150	1	200
L13C60L	60	66.7	81.5	1	5	107.0	14.0	90	150	1	200
L13C64L	64	71.1	86.9	1	5	114.0	13.2	90	150	1	200
L13C70L	70	77.8	95.1	1	5	125	12.0	90	150	1	200
L13C75L	75	83.3	102.0	1	5	134	11.2	90	150	1	200
L13C80L	80	88.7	108	1	5	142	10.6	90	150	1	200
L13C90L	90	100	122	1	5	160	9.4	90	300	1	200
L13C100L	100	111	136	1	5	179	8.4	90	300	1	200
L13C110L	110	122	149	1	5	196	7.7	90	300	1	400
L13C120L	120	133	163	1	5	214	7.0	90	300	1	400
L13C130L	130	144	176	1	5	213	6.5	90	300	1	400
L13C150L	150	167	204	1	5	268	5.6	90	300	1	400
L13C160L	160	178	218	1	5	287	5.2	90	300	1	400
L13C170L	170	189	231	1	5	304	4.9	90	300	1	400

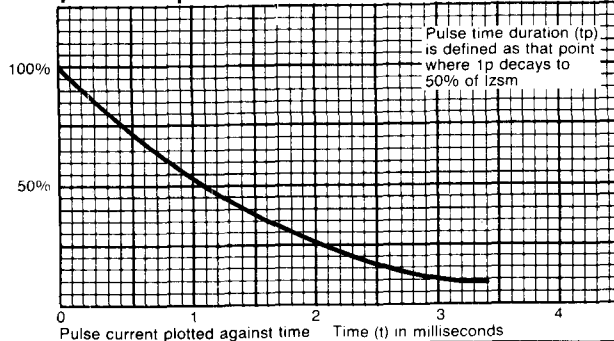
L13 Series



Note: Peak power defined as peak voltage times peak current



Exponential pulse waveform



Mechanical Characteristics

CASE: Hermetically sealed metal and glass DO13

FINISH: All external surfaces are corrosion resistant and leads solderable

POLARITY: Zener cathode connected to case

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

THERMAL RESISTANCE: 100°C/W junction to ambient

WEIGHT: 1.4 grammes approximately

Electrical Characteristics

PULSE REPETITION RATE: 0.01%

V_{BR} measured with pulse $\leq 20\text{mS}$