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**1.5KCD6.8 thru
1.5KCD200A,
CD5908 and CD6267
thru CD6303A
Transient Suppressor
CELLULAR DIE PACKAGE**

APPLICATION

This TAZ* series has a peak pulse power rating of 1500 watts for one millisecond. It can protect integrated circuits, hybrids, CMOS, MOS and other voltage sensitive components that are used in a broad range of applications including: telecommunications, power supplies, computers, automotive, industrial and medical equipment. TAZ* devices have become very important as a consequence of their high surge capability, extremely fast response time and low clamping voltage.

The cellular die (CD) package is ideal for use in hybrid applications and for solder mounting. The cellular design in hybrids assures ample bonding with immediate heat sinking to provide the required transient peak pulse power of 1500 watts.

FEATURES

- ✓ Economical
- ✓ 1500 Watts peak pulse power dissipation
- ✓ Stand-Off voltages from 5.0V to 171V
- ✓ Uses thermally passivated die design
- ✓ Additional silicone protective coating over die for rugged environments
- ✓ Stringent process norm screening
- ✓ Low leakage current at rated stand-off voltage
- ✓ Exposed metal surfaces are readily solderable
- ✓ 100% lot traceability
- ✓ Manufactured in the U.S.A.
- ✓ Meets JEDEC IN6267 - IN6303A electrically equivalent specifications
- ✓ Available in bipolar configuration
- ✓ Additional transient suppressor ratings and sizes are available as well as zener, rectifier and reference diode configurations. Consult factory for special requirements.

MAXIMUM RATINGS

1500 Watts of Peak Pulse Power Dissipation at 25°C**

Clamping (0 Volts to BV Min.):

unidirectional $< 1 \times 10^{-12}$ seconds;

bidirectional $< 5 \times 10^{-9}$ seconds;

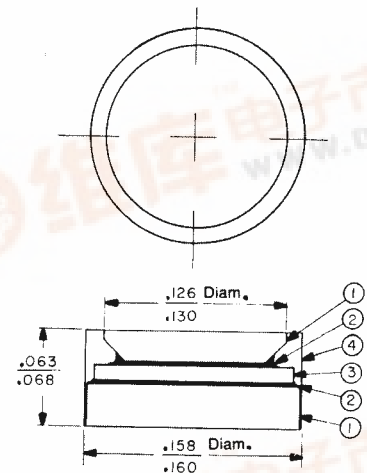
Operating and Storage Temperature: -65°C to +175°C

Forward Surge Rating: 200 Amps, 1/120 second at 25°C

Steady State Power Dissipation is heat sink dependent.

*Transient Absorption Zener

PACKAGE DIMENSIONS



Item Number	Description
1.....	Nickel and Silver Plated Copper Discs
2.....	Solder Bond
3.....	Silicon Die
4.....	Conformal coating

Illustration Represents Unipolar Only

MECHANICAL CHARACTERISTICS

Case: Nickel and Silver plated copper discs with conformal coating.

Finish: Both external surfaces are corrosion resistant, readily solderable.

Polarity: Large contact side is cathode

Mounting Position: Any

1.5KCD6.8 thru 1.5KCD200A, CD5908 and CD6267 thru CD6303A CELLULAR DIE PACKAGE

ELECTRICAL CHARACTERISTICS @ 25°C

Industry Type Number	JEDEC Type Number Elect. Equiv.	Rated Stand-Off Voltage		Breakdown Voltage (V _{BR}) VOLTS		Maximum Clamping Voltage @ I _{PP} (1 mSEC) V _C VOLTS	Maximum Reverse Leakage @ V _{WM} I _D μA	Rated Maximum Peak Pulse Current I _{PP} A	Maximum Temperature Coefficient of V _{BR} %/°C
		V _{WM} VOLTS	MIN.	MAX.	@ I _L mA				
1.5KCD6.8	CD6268	5.50	6.0	7.48	10	7.6	300	30.0	95.7
1.5KCD6.8A	CD6267	5.50	6.15	7.48	10	10.8	1000	139.0	95.7
1.5KCD7.5	CD6267A	5.80	6.45	7.14	10	10.5	1000	143.0	96.1
1.5KCD7.5A	CD6268A	6.05	6.75	8.25	10	11.7	500	129.0	96.1
1.5KCD10.2	CD6269	6.63	7.38	9.02	10	12.5	200	120.0	96.5
1.5KCD10.2A	CD6268A	7.02	7.79	9.41	10	12.1	200	124.0	96.5
1.5KCD15.1	CD6270	7.37	8.18	10.00	1	13.8	50	109.0	96.8
1.5KCD15.1A	CD6269A	7.78	8.65	9.55	1	13.4	50	112.0	96.8
1.5KCD18.0	CD6271	8.10	9.00	11.00	1	15.0	10	100.0	97.3
1.5KCD18.0A	CD6271A	8.55	9.50	10.50	1	14.5	10	103.0	97.3
1.5KCD18.0A	CD6272	9.00	9.90	12.00	1	16.2	5	93.0	97.3
1.5KCD18.0A	CD6272A	9.40	10.50	11.60	1	15.8	5	96.0	97.5
1.5KCD18.0A	CD6273	9.72	10.80	13.20	1	17.3	5	87.0	97.8
1.5KCD18.0A	CD6273A	10.10	11.10	12.80	1	16.7	5	90.0	97.8
1.5KCD18.0A	CD6274	10.50	12.00	14.30	1	19.0	5	79.0	98.1
1.5KCD18.0A	CD6274A	11.10	12.40	13.70	1	18.2	5	82.0	98.1
1.5KCD18.0A	CD6275	12.10	13.50	16.50	1	22.0	5	68.0	98.4
1.5KCD18.0A	CD6275A	12.80	14.30	15.80	1	21.2	5	71.0	98.4
1.5KCD18.0A	CD6276	12.90	14.40	17.60	1	23.5	5	67.0	98.6
1.5KCD18.0A	CD6276A	13.60	15.20	16.80	1	22.5	5	70.0	98.6
1.5KCD18.0A	CD6277	14.50	16.20	19.00	1	26.5	5	58.0	98.8
1.5KCD18.0A	CD6277A	15.30	17.10	18.90	1	25.2	5	61.0	98.8
1.5KCD18.0A	CD6278	16.20	18.00	21.00	1	29.1	5	51.0	99.0
1.5KCD18.0A	CD6278A	17.10	19.00	21.00	1	27.7	5	54.0	99.0
1.5KCD22.2	CD6279	17.80	19.80	24.20	1	31.9	5	47.0	99.2
1.5KCD22.2A	CD6279A	18.80	20.80	23.10	1	30.5	5	49.0	99.2
1.5KCD22.2A	CD6280	19.40	21.80	26.40	1	34.7	5	43.0	99.4
1.5KCD22.2A	CD6280A	20.40	22.80	25.20	1	33.3	5	45.0	99.4
1.5KCD27.7	CD6281	21.80	24.30	29.70	1	39.1	5	38.5	99.6
1.5KCD27.7A	CD6281A	23.10	25.70	28.40	1	37.5	5	40.0	99.6
1.5KCD27.7A	CD6282	24.30	26.80	31.50	1	43.5	5	34.5	99.7
1.5KCD27.7A	CD6282A	25.80	28.40	31.50	1	41.4	5	36.0	99.7
1.5KCD33.0	CD6283	26.80	29.70	36.30	1	47.7	5	31.5	99.8
1.5KCD33.0A	CD6283A	28.80	31.40	34.70	1	45.7	5	33.0	99.8
1.5KCD33.0A	CD6284	28.10	32.40	39.60	1	52.0	5	29.0	99.9
1.5KCD33.0A	CD6284A	30.80	34.20	37.80	1	49.9	5	30.5	99.9
1.5KCD33.0A	CD6285	31.80	35.10	42.90	1	56.4	5	25.5	100
1.5KCD33.0A	CD6285A	33.30	37.10	41.00	1	53.9	5	28.0	100
1.5KCD33.0A	CD6286	34.80	38.70	47.30	1	61.9	5	24.0	101
1.5KCD33.0A	CD6286A	36.80	40.90	45.20	1	59.3	5	25.5	101
1.5KCD47.0	CD6287	38.10	42.30	51.70	1	67.8	5	22.2	101
1.5KCD47.0A	CD6287A	40.20	44.70	49.40	1	64.3	5	23.2	101
1.5KCD47.0A	CD6288	41.30	45.90	56.10	1	73.5	5	20.4	102
1.5KCD47.0A	CD6288A	43.90	48.50	53.90	1	70.1	5	21.4	102
1.5KCD58.0	CD6289	45.40	50.40	61.80	1	80.5	5	18.6	103
1.5KCD58.0A	CD6289A	47.80	53.20	58.80	1	77.0	5	19.5	103
1.5KCD58.0A	CD6290	50.20	55.80	66.20	1	86.0	5	16.9	104
1.5KCD58.0A	CD6290A	53.00	58.90	65.10	1	85.0	5	17.7	104
1.5KCD68.0	CD6291	55.10	61.10	74.80	1	98.0	5	15.3	104
1.5KCD68.0A	CD6291A	58.10	64.40	71.80	1	92.0	5	16.3	104
1.5KCD68.0A	CD6292	60.70	67.50	82.50	1	108.0	5	13.9	105
1.5KCD68.0A	CD6292A	64.70	71.30	79.80	1	103.0	5	14.8	105
1.5KCD82.0	CD6293	66.40	73.80	90.20	1	118.0	5	12.7	105
1.5KCD82.0A	CD6293A	70.10	77.90	86.10	1	113.0	5	13.3	105
1.5KCD82.0A	CD6294	73.70	81.80	100.00	1	131.0	5	11.4	106
1.5KCD82.0A	CD6294A	77.80	86.50	95.50	1	125.0	5	12.0	106
1.5KCD100.0	CD6295	81.00	90.00	110.00	1	144.0	5	10.4	106
1.5KCD100.0A	CD6295A	85.50	95.00	105.00	1	137.0	5	11.0	106
1.5KCD100.0A	CD6296	89.20	99.00	121.00	1	158.0	5	9.5	107
1.5KCD100.0A	CD6296A	94.00	105.00	116.00	1	152.0	5	9.9	107
1.5KCD120.0	CD6297	87.20	108.00	132.00	1	173.0	5	8.7	107
1.5KCD120.0A	CD6297A	109.00	114.00	136.00	1	165.0	5	9.1	107
1.5KCD120.0A	CD6298	105.00	117.00	143.00	1	187.0	5	8.0	107
1.5KCD120.0A	CD6298A	111.00	124.00	137.00	1	179.0	5	8.4	107
1.5KCD150.0	CD6299	121.00	135.00	165.00	1	215.0	5	7.0	108
1.5KCD150.0A	CD6299A	128.00	143.00	158.00	1	207.0	5	7.2	108
1.5KCD150.0A	CD6300	132.00	144.00	175.00	1	230.0	5	6.5	108
1.5KCD150.0A	CD6300A	136.00	152.00	168.00	1	219.0	5	6.8	108
1.5KCD170.0	CD6301	138.00	153.00	187.00	1	244.0	5	6.2	108
1.5KCD170.0A	CD6301A	145.00	162.00	179.00	1	234.0	5	6.4	108
1.5KCD170.0A	CD6302	146.00	162.00	198.00	1	258.0	5	5.8	108
1.5KCD170.0A	CD6302A	154.00	171.00	189.00	1	248.0	5	6.1	108
1.5KCD200.0	CD6303	182.00	180.00	235.00	1	287.0	5	5.2	108
1.5KCD200.0A	CD6303A	171.00	190.00	210.00	1	274.0	5	5.5	108

V_f at 100 amps peak. 8.3 ms sine wave equals 3.5 volts maximum. For bidirectional part number add C or CA as suffix (ie: 1.5KCD33C or 1.5KCD33CA; or CD6283C or CD6283CA).

Note that for bidirectional types having V_{WM} of 8 volts and under, the I_D leakage current is doubled.

SYMBOLS AND ABBREVIATIONS

V_{WM} = RATED STAND-OFF VOLTAGE

I_{PP} = PEAK PULSE CURRENT

V_C (MAX) = MAXIMUM CLAMPING VOLTAGE

V_(BR) = BREAKDOWN VOLTAGE

I_T = TEST CURRENT

I_D = REVERSE LEAKAGE

NOTE 1 Normal selection criteria for TAZ* devices is by rated stand-off voltage (V_{WM}) and should be equal or greater than DC or continuous peak operating voltage.

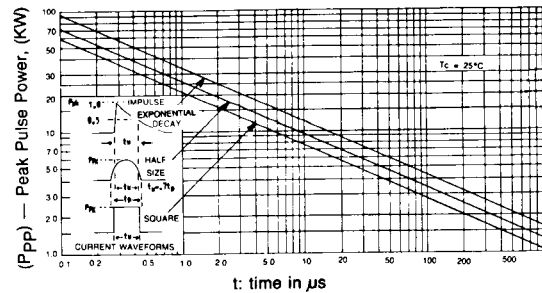


FIGURE 1
Peak Pulse Power vs Pulse Time

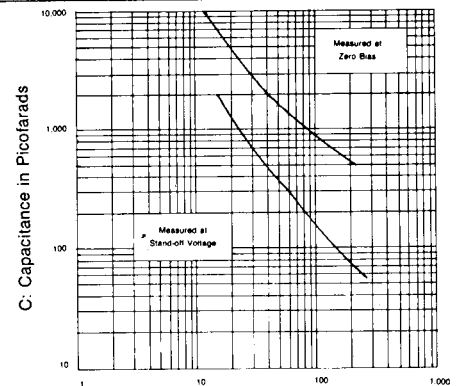


FIGURE 2
Typical Capacitance vs Breakdown Voltage

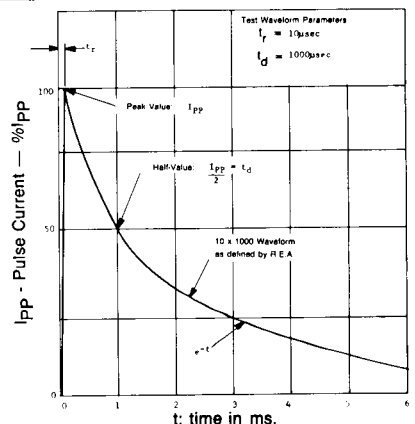


FIGURE 3
Pulse Wave Form

