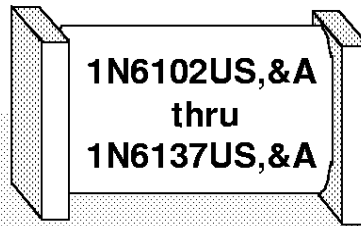


Square ended SMD



500 watt Voidless (TZS)

Hard Glass Tungsten MELF "B" Package

Applications

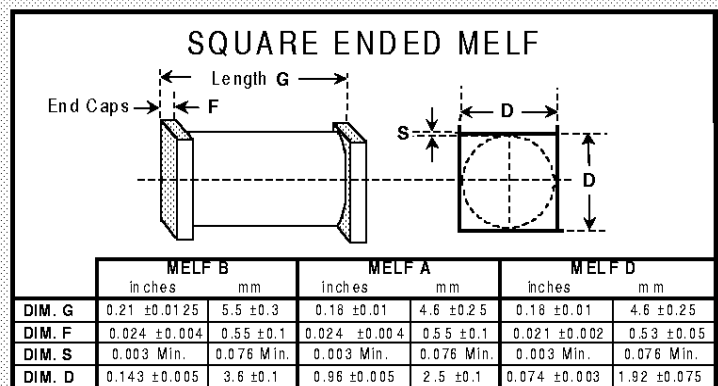
Symmetrical, bidirectional Transient voltage protection against static (ESD), power and lightning. The hard glass voidless construction is especially suited for the hostile environments in aerospace and military equipment applications where performance and a small footprint are important.

Reliability levels

These SMD parts are available in JAN, JTX, JTXV and JANS levels per MIL-S-19500/516. Axial leaded packages are also available.

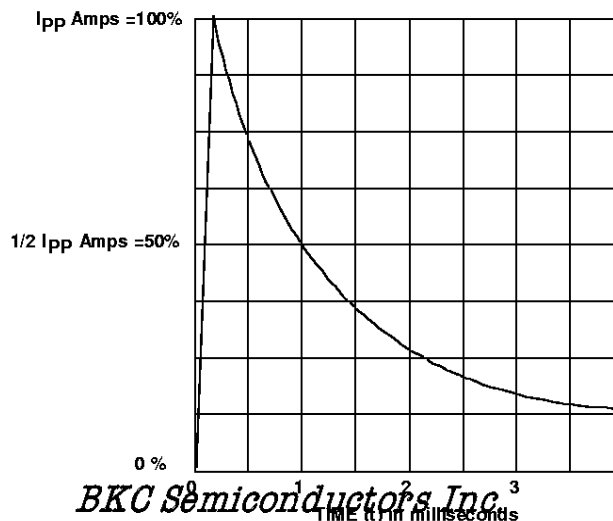
Features

- Six Sigma quality
- High surge capability
- Microminiature package
- Humidity proof hard glass
- No thermal fatigue
- Metallurgically bonded
- Thermally matched system
- Zero solderability defects
- Sigma Bond™ plated contacts

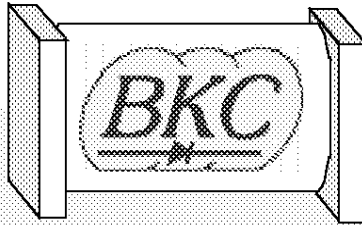


Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at $T_{END\ CAP} = 100\ ^\circ C$	P_D	5.0	Watts
Maximum Operating & Storage Temperature Range	$T_{Op\&St}$	-55 to +200	$^\circ C$
Peak Power surge for 1 mSec. @ 50% of I_{PP}	P_{pk}	500	Watts
Power Derating at $T_{END\ CAP} = 100\ ^\circ C$	P_{DR}	50 (Max)	mW/ $^\circ C$

DETAILED SPECIFICATIONS
ON REVERSE SIDE



Square ended SMD



500 watt Voidless (TZS)

1N6102US & A
thru
1N6137US & A series

500 Watt TZS
Detail
Specifications

Type	Minimum Breakdown Voltage	Test Current	Stand-off Voltage	Maximum Leakage Current		Clamping Voltage	Max. Peak Pulse Current	Maximum Temperature Coefficient
	(V _{BR}) @ I _{BR}	I _{BR}	(V _R)	(I _R) @ V _R	@ (I _{pp})	1/2 tp = 1mS (exp)	1/2 tp = 1mS (exp) tr = 10μS	@ I _{BR}
	Volts	mA	Volts	25° C μA	150° C μA	(V _C MAX.) Volts	(I _{pp}) @ tp A(pk)	(aVZ) %/°C
1N6102AUS✓	6.46	175	5.0	100	1500	10.5	47.6	.05
1N6103AUS✓	7.13	175	5.7	50	750	11.2	44.6	.06
1N6104AUS✓	7.79	150	6.2	20	500	12.1	41.3	.06
1N6105AUS✓	8.65	150	6.9	20	300	13.4	37.3	.06
1N6106AUS✓	9.50	125	7.6	20	200	14.5	34.5	.07
1N6107AUS✓	10.45	125	8.4	20	200	15.6	32.0	.07
1N6108AUS✓	11.4	100	9.1	20	150	16.9	29.6	.07
1N6109AUS✓	12.35	100	9.9	20	150	18.2	27.5	.08
1N6110AUS✓	14.25	75	11.4	20	100	21.0	23.8	.08
1N6111AUS✓	15.2	75	12.2	20	100	22.3	22.4	.08
1N6112AUS✓	17.1	65	13.7	1	100	25.1	19.9	.085
1N6113AUS✓	19.0	65	15.2	1	100	27.7	18.0	.085
1N6114AUS✓	20.9	50	16.7	1	100	30.5	16.4	.085
1N6115AUS✓	22.8	50	18.2	1	100	33.3	15.0	.09
1N6116AUS✓	25.7	50	20.6	1	100	37.4	13.4	.09
1N6117AUS✓	28.5	40	22.8	1	100	41.6	12.0	.09
1N6118AUS✓	31.4	40	25.1	1	100	45.7	10.9	.095
1N6119AUS✓	34.2	30	27.4	1	100	49.9	10.0	.095
1N6120AUS✓	37.1	30	29.7	1	100	53.6	9.3	.095
1N6121AUS✓	40.9	30	32.7	1	100	59.1	8.5	.095
1N6122AUS✓	44.7	25	35.8	1	100	64.6	7.7	.095
1N6123AUS✓	48.5	25	38.8	1	100	70.1	7.1	.095
1N6124AUS✓	53.2	20	42.6	1	100	77.0	6.5	.095
1N6125AUS✓	58.9	20	47.1	1	100	85.3	5.9	.100
1N6126AUS✓	64.6	20	51.7	1	100	97.1	5.1	.100
1N6127AUS✓	71.3	20	56.0	1	100	103.1	4.8	.100
1N6128AUS	77.9	15	62.2	1	100	112.8	4.4	.100
1N6129AUS	86.5	15	69.2	1	100	125.1	4.0	.100
1N6130AUS	95.0	12	76.0	1	100	137.6	3.6	.100
1N6131AUS	104.5	12	86.6	1	100	151.3	3.3	.100
1N6132AUS	114.0	10	91.2	1	100	165.1	3.0	.100
1N6133AUS	123.5	10	98.8	1	100	178.8	2.8	.105
1N6134AUS	142.5	8	114.0	1	100	206.3	2.4	.105
1N6135AUS	152.0	8	121.6	1	100	218.4	2.3	.105
1N6136AUS	171.0	5	136.8	1	100	245.7	2.0	.110
1N6137AUS	190.0	5	152.0	1	100	273.0	1.9	.110

Non A suffix units have a 5% higher max.surge voltage @ I_{SM} and a 5% lower V_(BR) MIN.



To order MIL parts, use the above ✓ numbers with the desired JAN, JTX, JTXV

BKC Semiconductor Inc. or JAN prefix. Consult factory for availability.

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