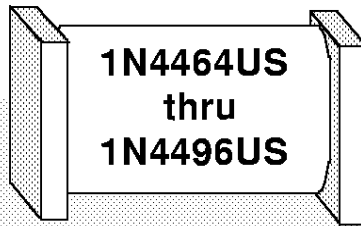


Square ended SMD



1.5 watt Voidless Zeners

Hard Glass Tungsten
MELF "A" Package

Applications

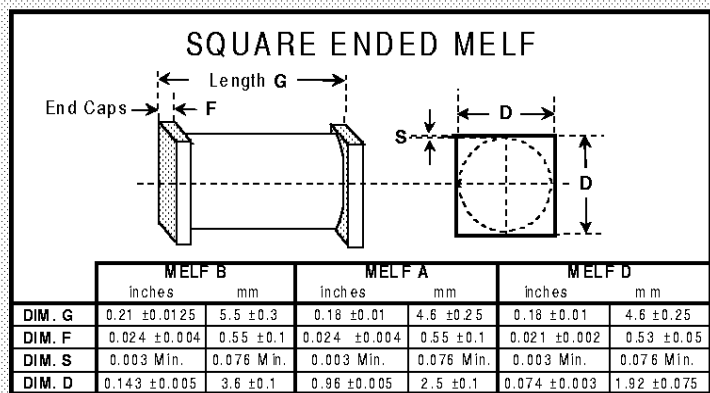
For use in hostile environments such as military and aerospace. Used where performance, surge and small footprint are important. These zener diodes are ideal for use as regulators and in clipping or protection applications.

Reliability levels

These SMD parts are available in JAN, JTX, JTXV and JANS levels per MIL-S-19500/406. 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
- Available in commercial versions



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation @ $T_{End\ Cap} = 100\ ^\circ C$	P_D	1.5	Watts
Maximum Operating Temperature Range	T_{Op}	-65 to +175	$^\circ C$
Storage Temperature Range	T_{St}	-65 to +200	$^\circ C$
Exponential peak power surge for 1 mSec. @ 50% of I_p	P_{pk}	100	Watts

Characteristics at $T = 25\ ^\circ C$	Symbol	Limit	Unit
Power Derating @ $T_{End\ Cap} = 100\ ^\circ C$	P_{DR}	20 (Max)	mW/ $^\circ C$
BKC Forward Voltage at $I_F = 1.0\ A$	V_F	1.2 (Max)	Volts

To order Mil types, use the listed part numbers with the appropriate JAN, JTX, JTXV or JANS prefix. Consult factory for availability.

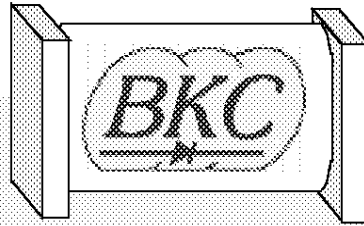
DETAILED SPECIFICATIONS ON REVERSE



BKC Semiconductors Inc.

6 Lake St · Lawrence, MA · 01841 · tel: (978) 681-0392 · fax: (978) 681-9155

Square ended SMD



1.5 watt Voidless Zeners

1N4464US
thru
1N4496US series

1.5 watt MELF "A"
Detail
Specifications

Type	Nominal Zener Voltage (V_Z) @ I_{Z1} Volts	Test Current I_{Z1} mA	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum Surge Current (I_{ZSM}) Amps	Maximum Regulator Current (I_{ZM}) mA
			(Z_{Z1}) @ I_{Z1} Ohms	(Z_{ZK}) @ I_{ZK} Ohms	I_{ZK} mA	(I_R) μ A	@ V_R Volts		
1N4464US	9.1	28	4	500	0.5	0.3	5.46	3.4	150
1N4465US	10	25	5	500	0.25	0.3	8	3.0	135
1N4466US	11	23	6	550	0.25	0.3	8.8	2.6	123
1N4467US	12	21	7	550	0.25	0.2	9.6	2.4	113
1N4468US	13	19	8	550	0.25	0.05	10.4	2.2	104
1N4469US	15	17	9	600	0.25	0.05	12	1.8	90
1N4470US	16	15.5	10	600	0.25	0.05	12.8	1.6	85
1N4471US	18	14	11	650	0.25	0.05	14.4	1.4	75
1N4472US	20	12.5	12	650	0.25	0.05	16	1.2	68
1N4473US	22	11.5	14	650	0.25	0.05	17.6	1.1	62
1N4474US	24	10.5	16	700	0.25	0.05	19.2	0.90	57
1N4475US	27	9.5	18	700	0.25	0.05	21.6	0.80	50
1N4476US	30	8.5	20	750	0.25	0.05	24	0.75	45
1N4477US	33	7.5	25	800	0.25	0.05	26.4	0.66	41
1N4478US	36	7.0	27	850	0.25	0.05	28.8	0.60	38
1N4479US	39	6.5	30	900	0.25	0.05	31.2	0.54	35
1N4480US	43	6.0	40	950	0.25	0.05	34.4	0.48	32
1N4481US	47	5.5	50	1000	0.25	0.05	37.6	0.45	29
1N4482US	51	5.0	60	1100	0.25	0.05	40.8	0.42	27
1N4483US	56	4.5	70	1300	0.25	0.25	44.8	0.39	25
1N4484US	62	4.0	80	1500	0.25	0.25	49.6	0.35	22
1N4485US	68	3.7	100	1700	0.25	0.25	54.4	0.32	20
1N4486US	75	3.3	130	2000	0.25	0.25	60.4	0.29	18
1N4487US	82	3.0	160	2500	0.25	0.25	65.6	0.26	17
1N4488US	91	2.8	200	3000	0.25	0.25	72.8	0.23	16
1N4489US	100	2.5	250	3100	0.25	0.25	80	0.20	14
1N4490US	110	2.0	300	4000	0.25	0.25	88	0.19	13
1N4491US	120	2.0	400	4500	0.25	0.25	96	0.18	12
1N4492US	130	1.9	500	5000	0.25	0.25	104	0.16	11
1N4493US	150	1.7	700	6000	0.25	0.25	120	0.14	9.5
1N4494US	160	1.6	1000	6500	0.25	0.25	128	0.12	8.9
1N4495US	180	1.4	1300	7000	0.25	0.25	144	0.10	7.9
1N4496US	200	1.2	1500	8000	0.25	0.25	160	0.08	7.2

Nominal zener voltage is $\pm 5\%$ tolerance.

To order Mil devices, use the above part numbers with the appropriate JAN, JTX, JTXV or JANS prefix.
Consult factory for availability.



BKC Semiconductors Inc.

6 Lake St · Lawrence, MA · 01841 · tel: (978) 681-0392 · fax: (978) 681-9135