

BZQ55C(A)(B)(D)2V4 THRU BZQ55C(A)(B)(D)47

SURFACE MOUNT ZENER DIODES

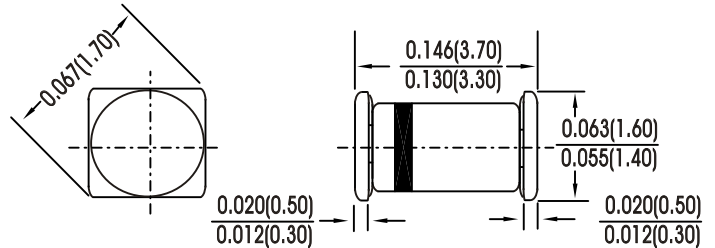
FEATURES:

- Standard Zener voltage tolerance is $\pm 5\%$ AND
 SUFFIX "BZQ55A" FOR $\pm 1\%$
 SUFFIX "BZQ55B" FOR $\pm 2\%$
 SUFFIX "BZQ55C" FOR $\pm 5\%$
 SUFFIX "BZQ55D" FOR $\pm 20\%$
- These diodes are also available in QUADRO MELF case with the type designation BZQ55C(A)(B)(D)2V4..... BZQ55C(A)(B)(D)47

MECHANICAL DATA

Case: MELF Molded Glass

QUADRO MELF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

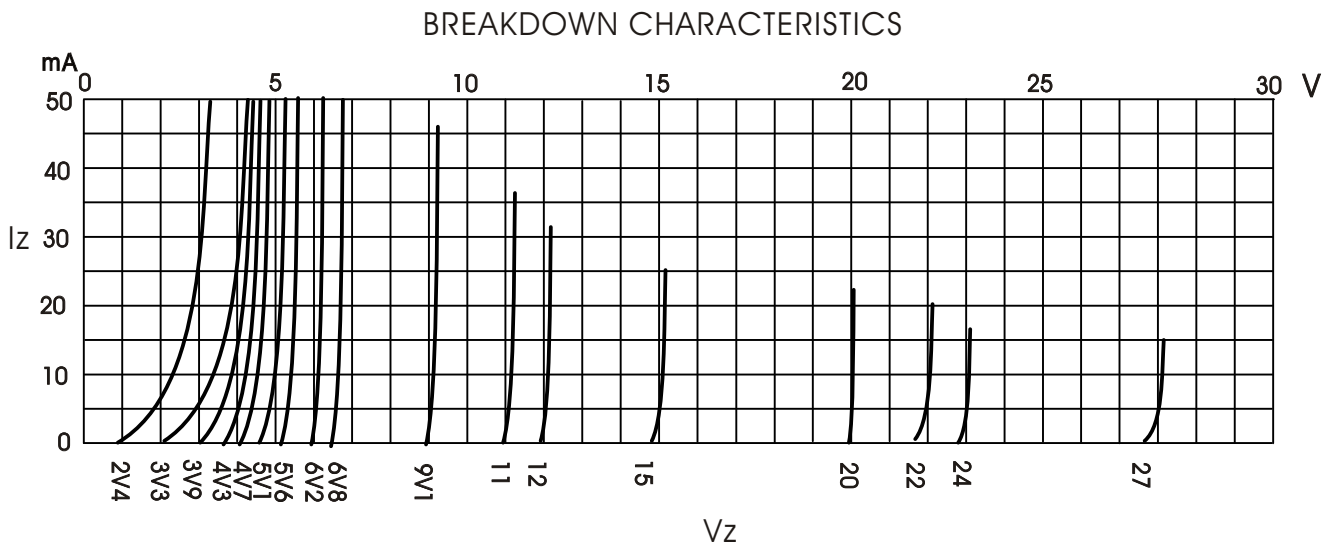
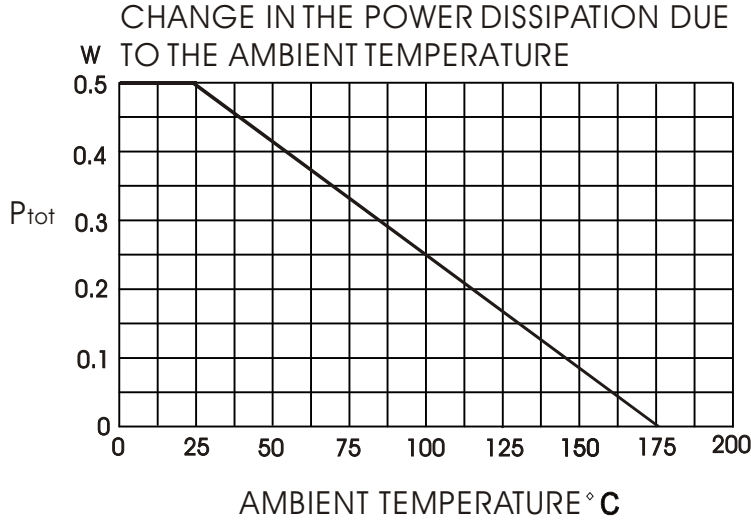
Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	Value	Units
Power Dissipation at Tamb=25 °C	P _{tot}	0.5 ¹⁾	W
Z-current	I _Z	P _V /V _Z	mA
Thermal Resistance Junction to Ambient Air	R _{thJ-A}	0.3 ¹⁾	K/W
Maximum instantaneous forward voltage drop at I _F =200 mADC	V _F	1.5	Volts
Junction temperature	T _J	175	°C
Storage temperature range	T _{stg}	-65 to +175	°C

1) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case

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Device Type	Nominal Zener Voltage Vz at IzT	Test Current IzT	Maximum Zener Impedance			Maximum Reverse Leakage Current		Typical Temperature coefficient	Maximum Regulator Current IzM
			ZzT at IzT	ZzK at IzK	IzK	IR	Test Voltage Suffix B		
	Volts	mA	Ω	Ω	mA	μ A	Volts	%/°C	mA
BZQ55C2V4	2.28-2.56	5	85	600	1.0	50	1.0	-0.070	150
BZQ55C2V7	2.5-2.9	5	85	600	1.0	10	1.0	-0.070	135
BZQ55C3V0	2.8-3.2	5	85	600	1.0	4	1.0	-0.070	125
BZQ55C3V3	3.1-3.5	5	85	600	1.0	2	1.0	-0.065	115
BZQ55C3V6	3.4-3.8	5	85	600	1.0	2	1.0	-0.060	105
BZQ55C3V9	3.7-4.1	5	85	600	1.0	2	1.0	-0.050	95
BZQ55C4V3	4.0-4.6	5	75	600	1.0	1	1.0	-0.025	90
BZQ55C4V7	4.4-5.0	5	60	600	1.0	0.5	1.0	-0.010	85
BZQ55C5V1	4.8-5.4	5	35	550	1.0	0.1	1.0	-0.015	80
BZQ55C5V6	5.2-6.0	5	25	450	1.0	0.1	1.0	-0.025	70
BZQ55C6V2	5.8-6.6	5	10	200	1.0	0.1	2.0	+0.035	64
BZQ55C6V8	6.4-7.2	5	8	150	1.0	0.1	3.0	+0.045	58
BZQ55C7V5	7.0-7.9	5	7	50	1.0	0.1	5.0	+0.050	53
BZQ55C8V2	7.7-8.7	5	7	50	1.0	0.1	6.0	+0.050	47
BZQ55C9V1	8.5-9.6	5	10	50	1.0	0.1	7.0	+0.060	43
BZQ55C10	9.4-10.6	5	15	70	1.0	0.1	7.5	+0.070	40
BZQ55C11	10.4-11.6	5	20	70	1.0	0.1	8.5	+0.070	36
BZQ55C12	11.4-12.7	5	20	90	1.0	0.1	9.0	+0.070	32
BZQ55C13	12.4-14.1	5	26	110	1.0	0.1	10	+0.070	29
BZQ55C15	13.8-15.6	5	30	110	1.0	0.1	11	+0.070	27
BZQ55C16	15.3-17.1	5	40	170	1.0	0.1	12	+0.070	24
BZQ55C18	16.8-19.1	5	50	170	1.0	0.1	14	+0.070	21
BZQ55C20	18.8-21.2	5	55	220	1.0	0.1	15	+0.070	20
BZQ55C22	20.8-23.3	5	55	220	1.0	0.1	17	+0.070	18
BZQ55C24	22.8-25.6	5	80	220	1.0	0.1	18	+0.080	16
BZQ55C27	25.1-28.9	5	80	220	1.0	0.1	20	+0.080	14
BZQ55C30	28-32	5	80	220	1.0	0.1	22	+0.080	13
BZQ55C33	31-35	5	80	220	1.0	0.1	24	+0.080	12
BZQ55C36	34-38	5	80	220	1.0	0.1	27	+0.080	11
BZQ55C39	37-41	2.5	90	500	1.0	0.1	30	+0.080	10
BZQ55C43	40-46	2.5	90	600	1.0	0.1	33	+0.080	9.2
BZQ55C47	44-50	2.5	110	700	1.0	0.1	36	+0.080	8.5

1) STANDARD VOLTAGE TOLERANCE IS $\pm 5\%$ AND
 SUFFIX "BZQ55A" FOR $\pm 1\%$
 SUFFIX "BZQ55B"X FOR $\pm 2\%$
 SUFFIX "BZQ55C" FOR $\pm 5\%$
 SUFFIX "BZQ55D" FOR $\pm 20\%$

1. STANDARDS ZENER DIODE 500mW
 Vz TOLERANCE = $\pm 5\%$
 2. QUADRO MELF MOLDED GLASS.
 *MEASURED WITH PULSES Tp=20mSec.