



*DC COMPONENTS CO., LTD.*

RECTIFIER SPECIALISTS

**BZQ55C2V4  
THRU  
BZQ55C47**

**TECHNICAL SPECIFICATIONS OF GLASS SILICON ZENER DIODES**

**FEATURES**

- \* Voltage Range: 2.4V to 47V
- \* Double slug type construction

**MECHANICAL DATA**

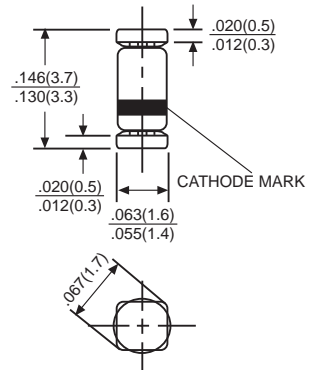
- \* Case: Glass sealed case Quadro Melf
- \* Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.05 grams Approx.

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



Quadro Melf



Dimensions in inches(millimeters)

	SYMBOL	VALUE	UNITS
Zener Current see Table "Characterisitics"			
Power Dissipation at Tamb=25°C	Ptot	500 <sup>(1)</sup>	mW
Junction Temperature	Tj	175	°C
Storage Temperature Range	Tstg	-55 to + 175	°C
Thermal Resistance Junction to Ambient Air	RthA	- - 0.3 <sup>(1)</sup>	K/mW Typ. Min. Max.
Forward Voltage at IF=100mA	VF	- - 1	Volts Typ. Min. Max.

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

NOTE: Standard Zener Voltage Tolerance ± 5%

# RATING AND CHARACTERISTIC CURVES (BZQ55C SERIES)

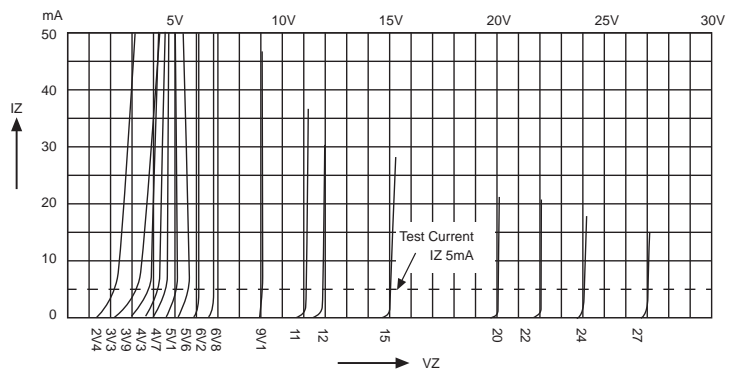
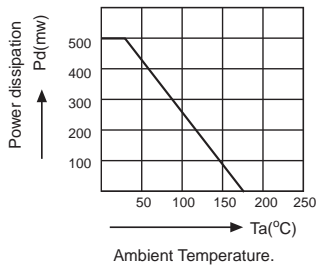
TYPE	Nominal Zener Voltage $V_Z @ I_{ZT}$		Zener Test Current $I_{ZT}$	Maximum Zener Impedance		$I_{ZK}$	Maximum Reverse Leakage Current	
				$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$	
	Volts		mA	Ohms	Ohms	mA	$\mu A$	Volts
BZQ55C2V4	2.28	2.56	5	85	600	1	50	1
BZQ55C2V7	2.5	2.9	5	85	600	1	10	1
BZQ55C3V0	2.8	3.2	5	85	600	1	4	1
BZQ55C3V3	3.1	3.5	5	85	600	1	2	1
BZQ55C3V6	3.4	3.8	5	85	600	1	2	1
BZQ55C3V9	3.7	4.1	5	85	600	1	2	1
BZQ55C4V3	4.0	4.6	5	75	600	1	1	1
BZQ55C4V7	4.4	5.0	5	60	600	1	0.5	1
BZQ55C5V1	4.8	5.4	5	35	550	1	0.1	1
BZQ55C5V6	5.2	6.0	5	25	450	1	0.1	1
BZQ55C6V2	5.8	6.6	5	10	200	1	0.1	2
BZQ55C6V8	6.4	7.2	5	8	150	1	0.1	3
BZQ55C7V5	7.0	7.9	5	7	50	1	0.1	5
BZQ55C8V2	7.7	8.7	5	7	50	1	0.1	6.2
BZQ55C9V1	8.5	9.6	5	10	50	1	0.1	6.8
BZQ55C10	9.4	10.6	5	15	70	1	0.1	7.5
BZQ55C11	10.4	11.6	5	20	70	1	0.1	8.2
BZQ55C12	11.4	12.7	5	20	90	1	0.1	9.1
BZQ55C13	12.4	14.1	5	26	110	1	0.1	10
BZQ55C15	13.8	15.6	5	30	110	1	0.1	11
BZQ55C16	15.3	17.1	5	40	170	1	0.1	12
BZQ55C18	16.8	19.1	5	50	170	1	0.1	13
BZQ55C20	18.8	21.2	5	55	220	1	0.1	15
BZQ55C22	20.8	23.3	5	55	220	1	0.1	16
BZQ55C24	22.8	25.6	5	80	220	1	0.1	18
BZQ55C27	25.1	28.9	5	80	220	1	0.1	20
BZQ55C30	28	32	5	80	220	1	0.1	22
BZQ55C33	31	35	5	80	220	1	0.1	24
BZQ55C36	34	38	5	80	220	1	0.1	27
BZQ55C39	37	41	2.5	90	500	1	0.1	30
BZQ55C43	40	46	2.5	90	600	1	0.1	30
BZQ55C47	44	50	2.5	110	700	1	0.1	30

NOTE: Standard Zener Voltage Tolerance  $\pm 5\%$

## Breakdown characteristics

BZQ55-SERIES

changes in the power dissipation due to the ambient temperature.



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