



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BZV55C2V4
THRU
BZV55C47

TECHNICAL SPECIFICATIONS OF GLASS SILICON ZENER DIODES

FEATURES

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

MECHANICAL DATA

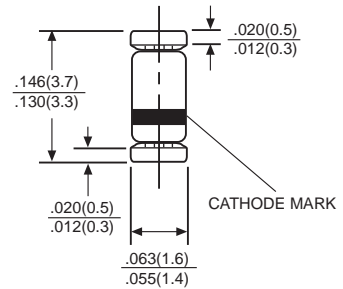
- * Case: Glass sealed case
- * Lead: Solder plated, solderable per MIL-STD-705, Method 2026 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.05 gram

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%.



Mini Melf(DL-35)



Dimensions in inches and (millimeters)

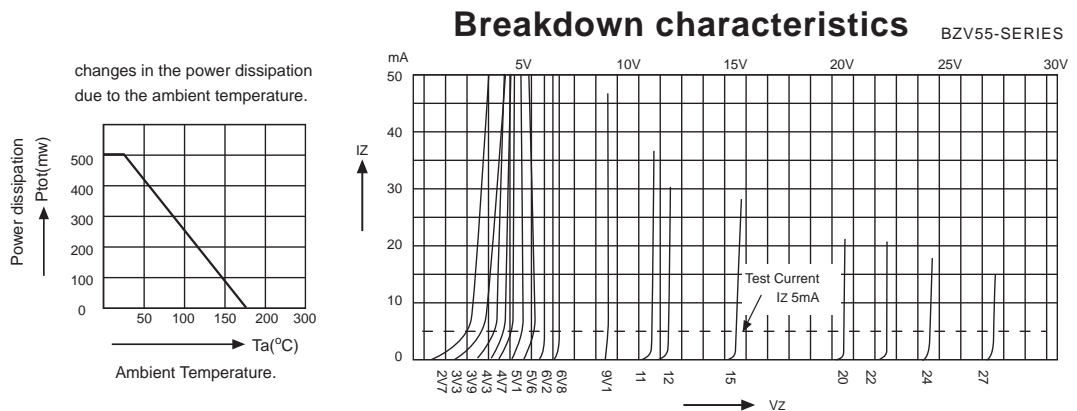
	SYMBOL	VALUE	UNITS
Zener Current see Table "Characteristics"			
Power Dissipation (Notes 1) at Tamb=25°C	Ptot	500	mW
Thermal Resistance - Junction to Ambient Air (Notes 2)	RthA	0.3	K/mW
Maximum Forward Voltage at IF=100mA	VF	1.0	Volts
Operating and Storage Temperature	TJ, Tstg	-55 to +150	°C

Notes: 1. Mounted on 5.0mm² (.013mm thick) land areas.
2. Leads are kept at specified ambient temperature at a distance of 8mm from case.

RATING AND CHARACTERISTIC CURVES (BZV55C SERIES)

TYPE	Nominal Zener Voltage $V_Z @ I_{ZT}$		Zener Test Current I_{ZT}	Maximum Zener Impedance		I_{ZK}	Maximum Reverse Leakage Current	
				$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$	
	Min	Max	mA	Ohms	Ohms	mA	μA	Volts
BZV55C2V4	2.28	2.56	5	85	600	1	50	1.0
BZV55C2V7	2.5	2.9	5	85	600	1	10	1.0
BZV55C3V0	2.8	3.2	5	85	600	1	4	1.0
BZV55C3V3	3.1	3.5	5	85	600	1	2	1.0
BZV55C3V6	3.4	3.8	5	85	600	1	2	1.0
BZV55C3V9	3.7	4.1	5	85	600	1	2	1.0
BZV55C4V3	4.0	4.6	5	75	600	1	1	1.0
BZV55C4V7	4.4	5.0	5	60	600	1	0.5	1.0
BZV55C5V1	4.8	5.4	5	35	550	1	0.1	1.0
BZV55C5V6	5.2	6.0	5	25	450	1	0.1	1.0
BZV55C6V2	5.8	6.6	5	10	200	1	0.1	2.0
BZV55C6V8	6.4	7.2	5	8	150	1	0.1	3.0
BZV55C7V5	7.0	7.9	5	7	50	1	0.1	5.0
BZV55C8V2	7.7	8.7	5	7	50	1	0.1	6.0
BZV55C9V1	8.5	9.6	5	10	50	1	0.1	7.0
BZV55C10	9.4	10.6	5	15	70	1	0.1	7.5
BZV55C11	10.4	11.6	5	20	70	1	0.1	8.5
BZV55C12	11.4	12.7	5	20	90	1	0.1	9.0
BZV55C13	12.4	14.1	5	26	110	1	0.1	10
BZV55C15	13.8	15.6	5	30	110	1	0.1	11
BZV55C16	15.3	17.1	5	40	170	1	0.1	12
BZV55C18	16.8	19.1	5	50	170	1	0.1	14
BZV55C20	18.8	21.2	5	55	220	1	0.1	15
BZV55C22	20.8	23.3	5	55	220	1	0.1	17
BZV55C24	22.8	25.6	5	80	220	1	0.1	18
BZV55C27	25.1	28.9	5	80	220	1	0.1	20
BZV55C30	28	32	5	80	220	1	0.1	22
BZV55C33	31	35	5	80	220	1	0.1	24
BZV55C36	34	38	5	80	220	1	0.1	27
BZV55C39	37	41	2.5	90	500	1	0.1	30
BZV55C43	40	46	2.5	90	600	1	0.1	33
BZV55C47	44	50	2.5	110	700	1	0.1	36

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



Disclaimer

Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold *DC COMPONENTS* harmless against all damages.

DC COMPONENTS disclaims any and all liability arising out of the application or use of any product, including consequential or incidental damages. Statement regarding the suitability of products for certain types of applications are based on *DC COMPONENTS*'s knowledge of typical requirements that are often placed on *DC COMPONENTS* products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

DC COMPONENTS reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein, and disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify *DC COMPONENTS*'s terms and conditions of purchase, including but not limited to the warranty expressed therein.

Unless otherwise in writing, *DC COMPONENTS* products are intended for use as general electronic components in standard applications (eg: Consumer electronic, Computer equipment, Office equipment, etc.), and not recommended for use in a high specific application where a failure or malfunction of the device could result in human injury or death (eg: Aerospace equipment, Submarine cables, Combustion equipment, Safety devices, Life support systems, etc.)

Customers using or selling *DC COMPONENTS* products not expressly indicated for use in such applications do so at their own risk. If customer intended to use *DC COMPONENTS* standard quality grade devices for applications not envisioned by *DC COMPONENTS*, please contact our sales representatives in advance.



DC COMPONENTS CO., LTD.