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DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BZV55C2V4 THRU BZV55C47

TECHNICAL SPECIFICATIONS OF GLASS SILICON ZENER DIODES

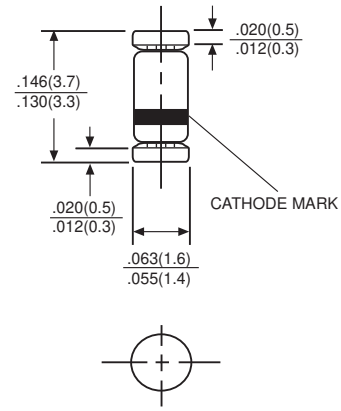
FEATURES

* 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

Mini Melf(DL-35)



Dimensions in inches and (millimeters)

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%.

	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)	R_{thA}	0.3	K/mW
Maximum Forward Voltage at I_F=100mA	V_F	1.0	Volts
Operating and Storage Temperature	T_J,Tstg	-55 to +150	°C

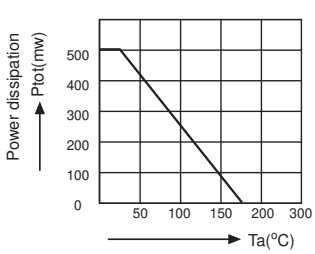
Notes: 1. Mounted on 5.0mm² (.013mm thick) land areas.
2. Leads are kept at specified ambient temperature at a distance of 8mm from case.

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 ± 5%

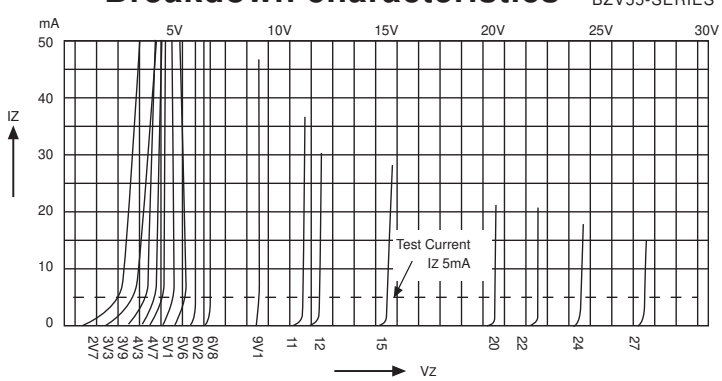
changes in the power dissipation
due to the ambient temperature.



Ambient Temperature.

Breakdown characteristics

BZV55-SERIES



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