

SILICON PLANAR ZENER DIODE

FEATURES

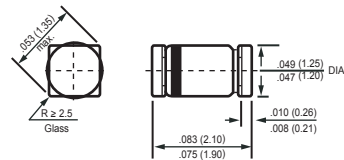
- * Zener Voltage Range 4.7 to 36 Volts
- * LS-31 (Micro-melf) Glass Package

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.



MICRO-MELF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@ TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	VALUE	UNITS
Power Dissipation @ $R_{th(j-a)} \leq 300$ °C/W	P_D	500	mW
Storage Temperature	T_{stg}	-65 to +175	°C
Junction Temperature	T_J	175	°C

THERMAL RESISTANCE

From Junction to Ambient in free air	$R_{th(j-a)}$	500	K / W
Form Junction to Tie point (Note 1)	$R_{th(j-l)}$	300	K / W

Notes: 1. 35 um copper clad, 0.9mm² copper area per electrode.
2. "Fully RoHS Compliant", "100% Sn Plating (Pb-free)".

VD 2007-11

ELECTRICAL CHARACTERISTICS (@TA=25°C unless otherwise specified)

TYPE	V _{ZT} @I _{ZT} (V) (Note)		R _{ZT} @I _{ZT} (Ω) MAX (Note)	I _{ZT} (mA)	I _R @T _A =25°C (μA) MAX	V _R (V)	V _F @ 100mA (V)
	MIN	MAX					
BZM55C 4.7BS	4.47	4.91	100	5.0	5.0	1.0	1.0
BZM55C 4.7BSA	4.47	4.65					
BZM55C 4.7BSB	4.59	4.77					
BZM55C 4.7BSC	4.71	4.91					
BZM55C 5.1BS	4.85	5.35	70	5.0	5.0	1.5	1.0
BZM55C 5.1BSA	4.85	5.03					
BZM55C 5.1BSB	4.97	5.18					
BZM55C 5.1BSC	5.12	5.35					
BZM55C 5.6BS	5.29	5.88	40	5.0	5.0	2.5	1.0
BZM55C 5.6BSA	5.29	5.52					
BZM55C 5.6BSB	5.46	5.70					
BZM55C 5.6BSC	5.64	5.88					
BZM55C 6.2BS	5.81	6.40	30	5.0	5.0	3.0	1.0
BZM55C 6.2BSA	5.81	6.06					
BZM55C 6.2BSB	5.99	6.24					
BZM55C 6.2BSC	6.16	6.40					
BZM55C 6.8BS	6.32	6.97	25	5.0	2.0	3.5	1.0
BZM55C 6.8BSA	6.32	6.59					
BZM55C 6.8BSB	6.52	6.79					
BZM55C 6.8BSC	6.70	6.97					
BZM55C 7.5BS	6.88	7.64	25	5.0	0.5	4.0	1.0
BZM55C 7.5BSA	6.88	7.19					
BZM55C 7.5BSB	7.11	7.41					
BZM55C 7.5BSC	7.33	7.64					
BZM55C 8.2BS	7.56	8.41	20	5.0	0.5	5.0	1.0
BZM55C 8.2BSA	7.56	7.90					
BZM55C 8.2BSB	7.82	8.15					
BZM55C 8.2BSC	8.07	8.41					
BZM55C 9.1BS	8.33	9.29	20	5.0	0.5	6.0	1.0
BZM55C 9.1BSA	8.33	8.70					
BZM55C 9.1BSB	8.61	8.99					
BZM55C 9.1BSC	8.89	9.29					
BZM55C 10BS	9.19	10.30	20	5.0	0.2	7.0	1.0
BZM55C 10BSA	9.19	9.59					
BZM55C 10BSB	9.48	9.90					
BZM55C 10BSC	9.82	10.30					
BZM55C 11BS	10.18	11.26	20	5.0	0.2	8.0	1.0
BZM55C 11BSA	10.18	10.36					
BZM55C 11BSB	10.50	10.95					
BZM55C 11BSC	10.82	11.26					

ELECTRICAL CHARACTERISTICS (@TA=25°C unless otherwise specified)

TYPE	V _{ZT} @I _{ZT} (V) (Note)		R _{ZT} @I _{ZT} (Ω) MAX (Note)	I _{ZT} (mA)	I _R @T _A =25°C (uA) MAX	V _R (V)	V _F @ 100mA (V)
	MIN	MAX					
BZM55C 12BS	11.13	12.30	25	5.0	0.2	9.0	1.0
BZM55C 12BSA	11.13	11.63					
BZM55C 12BSB	11.50	11.92					
BZM55C 12BSC	11.80	12.30					
BZM55C 13BS	12.18	13.62	26	5.0	0.2	10	1.0
BZM55C 13BSA	12.18	12.71					
BZM55C 13BSB	12.59	13.16					
BZM55C 13BSC	13.03	13.62					
BZM55C 15BS	13.48	15.02	30	5.0	0.2	11	1.0
BZM55C 15BSA	13.48	14.09					
BZM55C 15BSB	13.95	14.56					
BZM55C 15BSC	14.42	15.02					
BZM55C 16BS	14.87	16.50	40	5.0	0.2	12	1.0
BZM55C 16BSA	14.87	15.50					
BZM55C 16BSB	15.33	15.96					
BZM55C 16BSC	15.79	16.50					
BZM55C 18BS	16.34	18.30	50	5.0	0.2	13	1.0
BZM55C 18BSA	16.34	17.06					
BZM55C 18BSB	16.90	17.67					
BZM55C 18BSC	17.51	18.30					
BZM55C 20BS	18.14	20.45	55	5.0	0.2	15	1.0
BZM55C 20BSA	18.14	18.96					
BZM55C 20BSB	18.80	19.68					
BZM55C 20BSC	19.52	20.45					
BZM55C 22BS	20.23	22.61	55	5.0	0.2	17	1.0
BZM55C 22BSA	20.23	21.08					
BZM55C 22BSB	20.76	21.65					
BZM55C 22BSC	21.22	22.09					
BZM55C 22BSD	21.68	22.61					
BZM55C 24BS	22.26	24.81	80	5.0	0.2	19	1.0
BZM55C 24BSA	22.26	23.12					
BZM55C 24BSB	22.75	23.73					
BZM55C 24BSC	23.29	24.72					
BZM55C 24BSD	23.81	24.81					
BZM55C 27BS	24.26	27.64	80	5.0	0.2	21	1.0
BZM55C 27BSA	24.26	25.52					
BZM55C 27BSB	24.97	26.26					
BZM55C 27BSC	25.63	26.95					
BZM55C 27BSD	26.29	27.64					

ELECTRICAL CHARACTERISTICS (@TA=25°C unless otherwise specified)

TYPE	V _{ZT} @I _{ZT} (V) (Note)		R _{ZT} @I _{ZT} (Ω) MAX (Note)	I _{ZT} (mA)	I _R @T _A =25°C (uA) MAX	V _R (V)	V _F @ 100mA (V)
	MIN	MAX					
BZM55C 30BS	26.99	30.51	80	5.0	0.2	23	1.0
BZM55C 30BSA	26.99	28.39					
BZM55C 30BSB	27.70	29.13					
BZM55C 30BSC	28.36	29.82					
BZM55C 30BSD	29.02	30.51					
BZM55C 33BS	29.68	33.11	80	5.0	0.2	25	1.0
BZM55C 33BSA	29.68	31.22					
BZM55C 33BSB	30.32	31.88					
BZM55C 33BSC	30.90	32.50					
BZM55C 33BSD	31.49	33.11					
BZM55C 36BS	32.14	35.77	80	5.0	0.2	27	1.0
BZM55C 36BSA	32.14	33.79					
BZM55C 36BSB	32.79	34.49					
BZM55C 36BSC	33.40	35.13					
BZM55C 36BSD	34.01	35.77					

NOTE: Pulse Condition : 20mS < tp < 50mS, Duty Cycle < 2%.

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