DACO

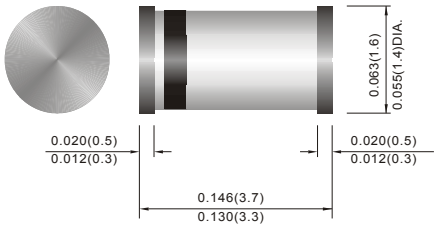
ZMM55C Series

500mW SURFACE MOUNT ZENER DIODES

FEATURES

- Planar Die construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Lead free in comply with EU RoHS 2011/65/EU directives

MINI-MELF/LL-34



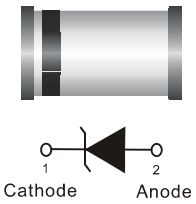
Unit : inch(mm)

MECHANICAL DATA

- Case: Molded Glass MINI-MELF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx. Weight: 0.03 grams
- Mounting Position: Any
- Packing information

T/R - 2.5K per 7" plastic Reel

T/R - 10K per 13" plastic Reel



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation at T_A = 25°C	P_{TOT}	500	mW
Junction Temperature	T_J	175	°C
Storage Temperature Range	T_S	-65 to +175	°C

Parameter	Symbol	Min.	Typ.	Max.	Units
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	--	--	0.3	°C/mW
Forward Voltage at I_F = 200mA	V_F	--	--	1.5	V

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking code
	V_Z @ I_{ZT}			Z_{ZT} @ I_{ZT}		Z_{ZK} @ I_{ZK}		I_R @ V_R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
ZMM55C2V4	2.4	2.28	2.56	85	5	600	1	50	1	C2V4
ZMM55C2V7	2.7	2.5	2.9	85	5	600	1	10	1	C2V7
ZMM55C3V0	3	2.8	3.2	85	5	600	1	4	1	C3V0
ZMM55C3V3	3.3	3.1	3.5	85	5	600	1	2	1	C3V3
ZMM55C3V6	3.6	3.4	3.8	85	5	600	1	2	1	C3V6
ZMM55C3V9	3.9	3.7	4.1	85	5	600	1	2	1	C3V9
ZMM55C4V3	4.3	4	4.6	75	5	600	1	1	1	C4V3
ZMM55C4V7	4.7	4.4	5	60	5	600	1	0.5	1	C4V7
ZMM55C5V1	5.1	4.8	5.4	35	5	550	1	0.1	1	C5V1
ZMM55C5V6	5.6	5.2	6	25	5	450	1	0.1	1	C5V6
ZMM55C6V2	6.2	5.8	6.6	10	5	200	1	0.1	2	C6V2
ZMM55C6V8	6.8	6.4	7.2	8	5	150	1	0.1	3	C6V8
ZMM55C7V5	7.5	7	7.9	7	5	50	1	0.1	5	C7V5
ZMM55C8V2	8.2	7.7	8.7	7	5	50	1	0.1	6	C8V2
ZMM55C9V1	9.1	8.5	9.6	10	5	50	1	0.1	7	C9V1
ZMM55C10	10	9.4	10.6	15	5	70	1	0.1	7.5	C10V
ZMM55C11	11	10.4	11.6	20	5	70	1	0.1	8.5	C11V
ZMM55C12	12	11.4	12.7	20	5	90	1	0.1	9	C12V
ZMM55C13	13	12.4	14.1	26	5	110	1	0.1	10	C13V
ZMM55C15	15	13.8	15.6	30	5	110	1	0.1	11	C15V
ZMM55C16	16	15.3	17.1	40	5	170	1	0.1	12	C16V
ZMM55C18	18	16.8	19.1	50	5	170	1	0.1	14	C18V
ZMM55C20	20	18.8	21.2	55	5	220	1	0.1	15	C20V
ZMM55C22	22	20.8	23.3	55	5	220	1	0.1	17	C22V
ZMM55C24	24	22.8	25.6	80	5	220	1	0.1	18	C24V
ZMM55C27	27	25.1	28.9	80	5	220	1	0.1	20	C27V
ZMM55C30	30	28	32	80	5	220	1	0.1	22	C30V
ZMM55C33	33	31	35	80	5	220	1	0.1	24	C33V
ZMM55C36	36	34	38	80	5	220	1	0.1	27	C36V
ZMM55C39	39	37	41	90	2.5	500	1	0.1	30	C39V
ZMM55C43	43	40	46	90	2.5	600	1	0.1	33	C43V
ZMM55C47	47	44	50	110	2.5	700	1	0.1	36	C47V
ZMM55C51	51	48	54	125	2.5	700	0.5	0.1	39	C51V
ZMM55C56	56	52	60	135	2.5	1000	0.5	0.1	43	C56V
ZMM55C62	62	58	66	150	2.5	1000	0.5	0.1	47	C62V
ZMM55C68	68	64	72	200	2.5	1000	0.5	0.1	51	C68V
ZMM55C75	75	70	79	250	2.5	1500	0.5	0.1	56	C75V

Notes.

STANDARD VOLTAGE TOLERANCE IS + 5% AND :
SUFFIX " A" FOR + 1%
SUFFIX " B" FOR + 2%
SUFFIX " C" FOR + 5%
SUFFIX " D" FOR + 20%

RATING AND CHARACTERISTIC CURVES

FIG. 1 POWER DERATING CURVE

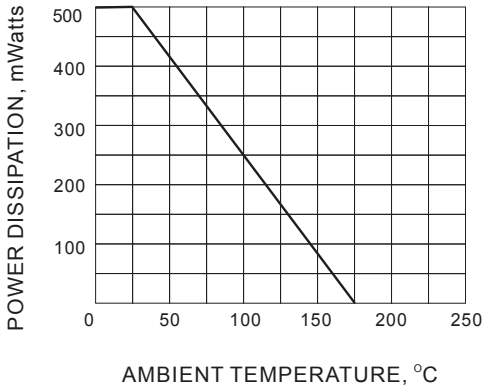
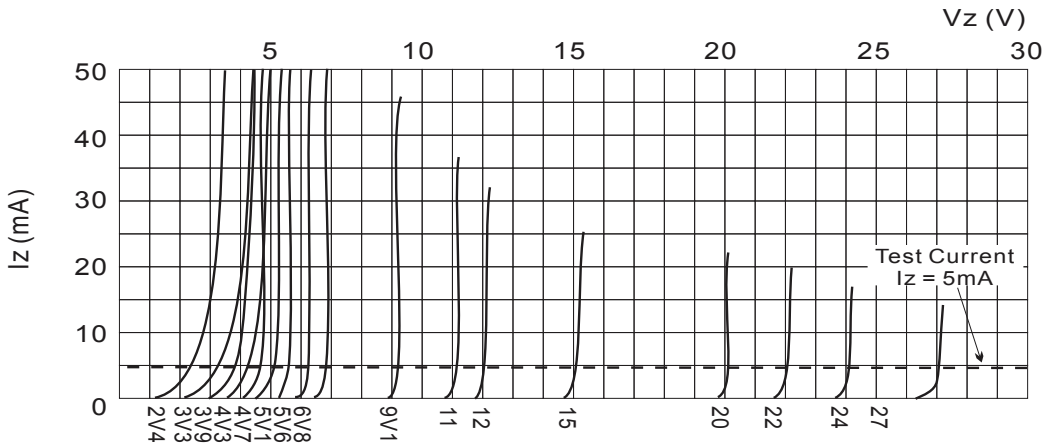
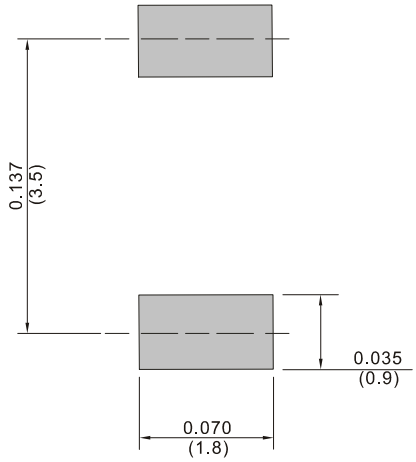


Fig.2 BREAKDOWN CHARACTERISTICS



MOUNTING PAD LAYOUT



Unit：inch(mm)

ORDER INFORMATION

- Packing information
  T/R - 10K per 13" plastic Reel
  T/R - 2.5K per 7" plastic Reel

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