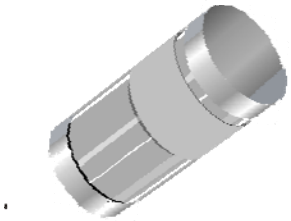
500mW Surface Mount Zener Diodes



MiniMelf

RoHS Compliant

Features

- Planar Die Construction
- 500mW Power Dissipation
- Very Sharp Reverse Characteristic
- Very High Stability
- Low Reverse Current Level
- Standard Zener Voltage Tolerance is ± 5 %
- Ideally Suited for Automated Assembly Processes
- RoHS Compliant

Mechanical Data

Case:	Molded Glass MiniMelf
Terminals:	Solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	Approx. 0.03 grams

Maximum Ratings & Electrical Characteristics *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description	Value	Unit	Conditions
P_D	Power Dissipation at Ta=25° C	500	mW	
V_F	Forward Voltage	1.5	V	I_F=200mA
R_{thJA}	Thermal Resistance Junction to Ambient	0.3	K/mW	
T_J	Junction Temperature	175	° C	
T_{STG}	Storage Temperature Range	-65 to +175	° C	

Note: Valid provided that leads at a distance of 8mm from case are kept at ambient temperature.

ZMMC2V4 - ZMMC100

P/N	Marking Code	Normal Zener Voltage				Max. Zener impedance			Max. reverse leakage current	
		VZ @ IZT				ZZT @ IZT	Zzk @ Izk		ID @ VR	
		Nom.(V)	Min. (V)	Max. (V)	IZT (mA)	Ω	Ω	mA	μA	VR (V)
ZMMC2V4	C2V4	2.4	2.28	2.56	5.0	85	600	1	50	1
ZMMC2V7	C2V7	2.7	2.5	2.9	5.0	85	600	1	10	1
ZMMC3V0	C3V0	3.0	2.8	3.2	5.0	85	600	1	4	1
ZMMC3V3	C3V3	3.3	3.1	3.5	5.0	85	600	1	2	1
ZMMC3V6	C3V6	3.6	3.4	3.8	5.0	85	600	1	2	1
ZMMC3V9	C3V9	3.9	3.7	4.1	5.0	85	600	1	2	1
ZMMC4V3	C4V3	4.3	4.0	4.6	5.0	75	600	1	1	1
ZMMC4V7	C4V7	4.7	4.4	5.0	5.0	60	600	1	0.5	1
ZMMC5V1	C5V1	5.1	4.8	5.4	5.0	35	550	1	0.1	1
ZMMC5V6	C5V6	5.6	5.2	6.0	5.0	25	450	1	0.1	1
ZMMC6V2	C6V2	6.2	5.8	6.6	5.0	10	200	1	0.1	2
ZMMC6V8	C6V8	6.8	6.4	7.2	5.0	8	150	1	0.1	3
ZMMC7V5	C7V5	7.5	7.0	7.9	5.0	7	50	1	0.1	5
ZMMC8V2	C8V2	8.2	7.7	8.7	5.0	7	50	1	0.1	6
ZMMC9V1	C9V1	9.1	8.5	9.6	5.0	10	50	1	0.1	7
ZMMC10	C10V	10	9.4	10.6	5.0	15	70	1	0.1	7.5
ZMMC11	C11V	11	10.4	11.6	5.0	20	70	1	0.1	8.5
ZMMC12	C12V	12	11.4	12.7	5.0	20	90	1	0.1	9
ZMMC13	C13V	13	12.4	14.1	5.0	26	110	1	0.1	10
ZMMC15	C15V	15	13.8	15.6	5.0	30	110	1	0.1	11
ZMMC16	C16V	16	15.3	17.1	5.0	40	170	1	0.1	12
ZMMC18	C18V	18	16.8	19.1	5.0	50	170	1	0.1	14
ZMMC20	C20V	20	18.8	21.2	5.0	55	220	1	0.1	15
ZMMC22	C22V	22	20.8	23.3	5.0	55	220	1	0.1	17
ZMMC24	C24V	24	22.8	25.6	5.0	80	220	1	0.1	18
ZMMC27	C27V	27	25.1	28.9	5.0	80	220	1	0.1	20
ZMMC30	C30V	30	28	32	5.0	80	220	1	0.1	22
ZMMC33	C33V	33	31	35	5.0	80	220	1	0.1	24
ZMMC36	C36V	36	34	38	5.0	80	220	1	0.1	27
ZMMC39	C39V	39	37	41	2.5	90	500	1	0.1	30
ZMMC43	C43V	43	40	46	2.5	90	600	1	0.1	33

P/N	Marking Code	Normal Zener Voltage				Max. Zener impedance			Max. reverse leakage current	
		VZ @ IZT				ZZT @ IZT	Zzk @ Izk		ID @ VR	
		Nom.(V)	Min. (V)	Max. (V)	IZT (mA)	Ω	Ω	mA	μA	VR (V)
ZMMC47	C47V	47	44	50	2.5	110	700	1	0.1	36
ZMMC51	C51V	51	48	54	2.5	125	700	0.5	0.1	39
ZMMC56	C56V	56	52	60	2.5	135	1000	0.5	0.1	43
ZMMC62	C62V	62	58	66	2.5	150	1000	0.5	0.1	47
ZMMC68	C68V	68	64	72	2.5	200	1000	0.5	0.1	51
ZMMC75	C75V	75	70	79	2.5	250	1500	0.5	0.1	56
ZMMC82	C82V	82	77	87	2.5	300	2000	0.5	0.1	62
ZMMC91	C91V	91	85	96	1.0	450	5000	0.1	0.1	68
ZMMC100	C100	100	94	106	1.0	450	5000	0.1	0.1	75

Note: Marking code is available in 2008.

Characteristics Curves

Fig.1 Power Derating Curve

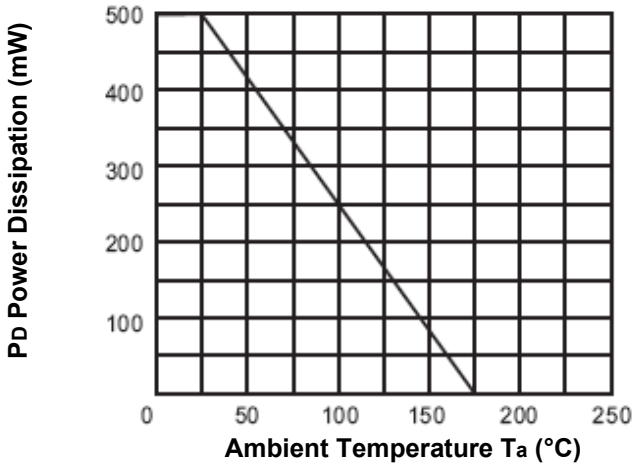
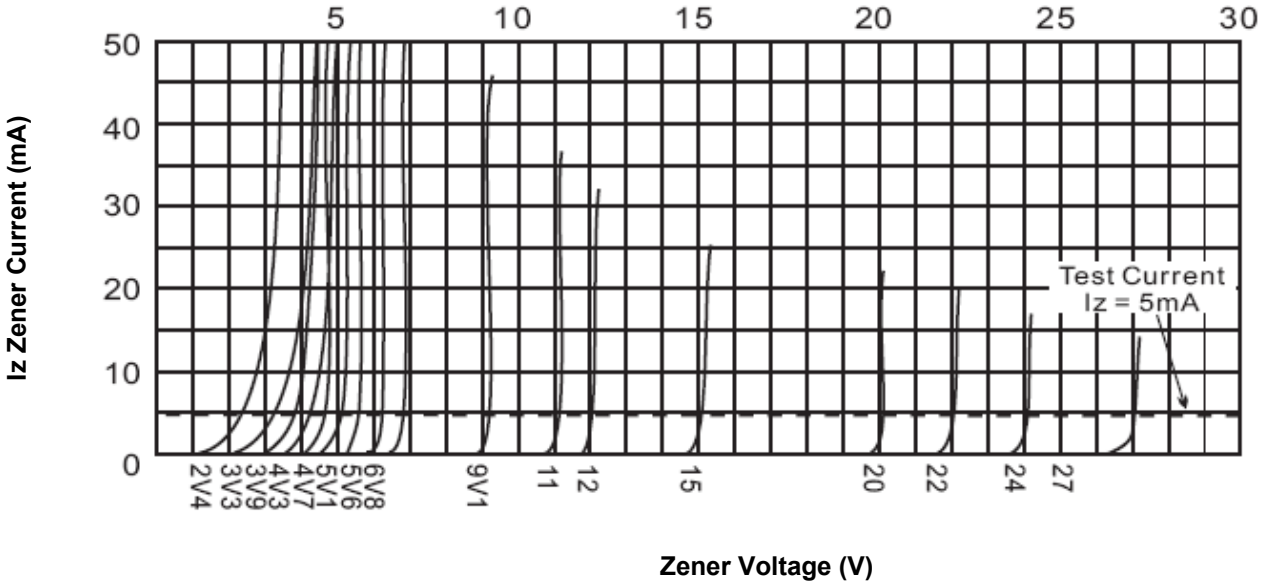
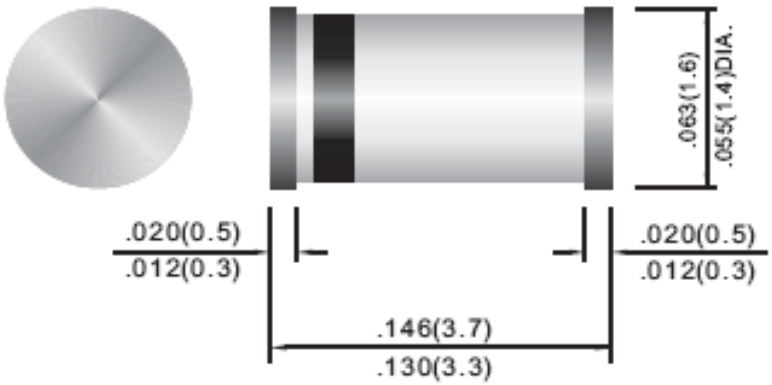


Fig.2 Breakdown Characteristics



Dimensions in inches (mm)

MiniMelf



How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKAWAY, VALENCIA, CA 91355-4162
Tel: (800) TAITRON (800) 824-8766 (661) 257-6060
Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415
Email: taitron@taitroncomponents.com
Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P. 42970 MEXICO
Tel: +52-55-5560-1519
Fax: +52-55-5560-2190

TAITRON COMPONETS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL
Tel: +55-11-5574-7949
Fax: +55-11-5572-0052

TAITRON COMPONETS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA
Tel: +86-21-5424-9942
Fax: +86-21-5424-9931