

Zener Diodes

Power Dissipation - 200 mWatts

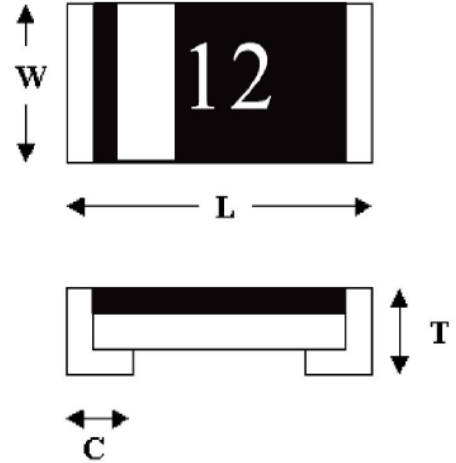
Features

- Silicon planar power zener diodes
- SMD chip pattern, available in various dimension
- Leadfree and RoHS compliance components

Mechanical Data

- Size: 0805
- Weight: approx. 6mg
- Marking: Zener voltage & cathode terminal

0603



Dimension/mm	0603
L	1.55±0.1
W	0.80±0.1
T	0.65±0.1
C	0.35±0.1

Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	Value	Unit
Power Dissipation	P _{tot}	200	mW
Repetitive Peak Forward Current	I _{FRM}	200	mA
Junction Temperature	T _j	150	°C
Thermal Resistance Junction to Ambient air	R _{θJA}	300	°C/W
Operating & Storage Temperature range	Topr, stg	-55 to 150	°C
Forward Voltage at IF=200mA	V _F	1.5 MAX	V

Zener Voltage Tolerance, =±5%

Notes: Valid provided that electrodes are kept at ambient temperature.

Rating and Characteristic Curves

HMZ0W202V0X3 THRU HMZ0W2075VX3

Part Number	Marking Code	Nominal Zener Voltage		Max Zener Impedance				Max Reverse Leakage Current	
		Vz @ IZT		ZZT @ IZT		ZZK @ IZK		IR @ VR	
		Min V	Max V	Ω	mA	Ω	mA	μA	V
HMZ0W202V0X3	B	1.90	2.10	85	5	600	1	100	1
HMZ0W202V2X3	B2	2.09	2.31	85	5	600	1	75	1
HMZ0W202V4X3	B4	2.28	2.52	85	5	600	1	50	1
HMZ0W202V7X3	B7	2.57	2.84	85	5	600	1	10	1
HMZ0W203V0X3	C	2.85	3.15	85	5	600	1	4	1
HMZ0W203V3X3	C3	3.14	3.47	85	5	600	1	2	1
HMZ0W203V6X3	C6	3.42	3.78	85	5	600	1	2	1
HMZ0W203V9X3	C9	3.71	4.10	85	5	600	1	2	1
HMZ0W204V3X3	D3	4.09	4.52	80	5	600	1	1	1
HMZ0W204V7X3	D7	4.47	4.94	70	5	600	1	0.5	1
HMZ0W205V1X3	E1	4.85	5.36	50	5	550	1	0.1	1
HHMZ0W205V6X3	E6	5.32	5.88	30	5	450	1	0.1	1
HMZ0W206V2X3	F2	5.89	6.51	10	5	200	1	0.1	2
HMZ0W206V8X3	F8	6.46	7.14	8	5	150	1	0.1	3
HMZ0W207V5X3	G5	7.13	7.88	7	5	50	1	0.1	5
HMZ0W208V2X3	H2	7.79	8.61	7	5	50	1	0.1	6.2
HMZ0W209V1X3	I1	8.65	9.56	10	5	50	1	0.1	6.8
HMZ0W2010VX3	10	9.50	10.50	15	5	70	1	0.1	7.5
HMZ0W2011VX3	11	10.45	11.55	20	5	70	1	0.1	8.2
HMZ0W2012VX3	12	11.40	12.60	20	5	90	1	0.1	9.1
HMZ0W2013VX3	13	12.35	13.65	26	5	110	1	0.1	10
HMZ0W2015VX3	15	14.25	15.75	30	5	110	1	0.1	11
HMZ0W2016VX3	16	15.20	16.80	40	5	170	1	0.1	12
HMZ0W2018VX3	18	17.10	18.90	50	5	170	1	0.1	13
HMZ0W2020VX3	20	19.00	21.00	55	5	220	1	0.1	15
HMZ0W2022VX3	22	20.90	23.10	55	5	220	1	0.1	16
HMZ0W2024VX3	24	22.80	25.20	80	5	220	1	0.1	18
HMZ0W2027VX3	27	25.65	28.35	80	5	220	1	0.1	20
HMZ0W2030VX3	30	28.50	31.50	80	5	220	1	0.1	22
HMZ0W2033VX3	33	31.35	34.65	80	5	220	1	0.1	24
HMZ0W2036VX3	36	34.20	37.80	80	5	220	1	0.1	27
HMZ0W2039VX3	39	37.05	40.95	90	2.5	500	0.5	0.1	29.3
HMZ0W2043VX3	43	40.85	45.15	90	2.5	600	0.5	0.1	32.3
HMZ0W2047VX3	47	44.65	49.35	110	2.5	700	0.5	0.1	35.3
HMZ0W2051VX3	51	48.45	53.55	125	2.5	700	0.5	0.1	38.3
HMZ0W2056VX3	56	53.20	58.80	135	2.5	1000	0.5	0.1	42
HMZ0W2062VX3	62	58.90	65.10	150	2.5	1000	0.5	0.1	46.5
HMZ0W2068VX3	68	64.60	71.40	200	2.5	1000	0.5	0.1	51
HMZ0W2075VX3	75	71.25	78.75	250	2.5	1500	0.5	0.1	56.3

The curve above is for reference only.

HMZ0W20*X3-7-99-00-CC0015

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Figure 1. Forward current vs Forward Voltage

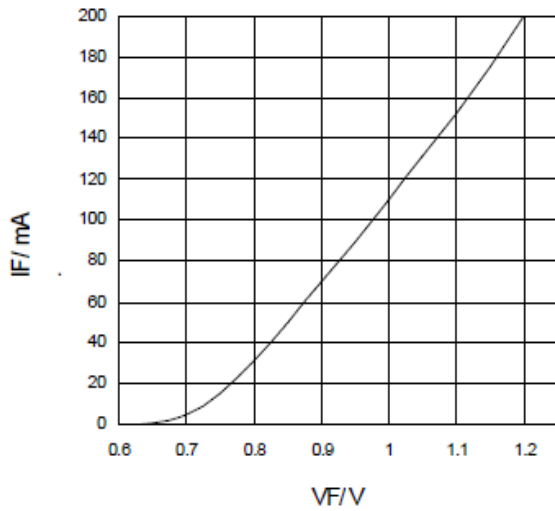
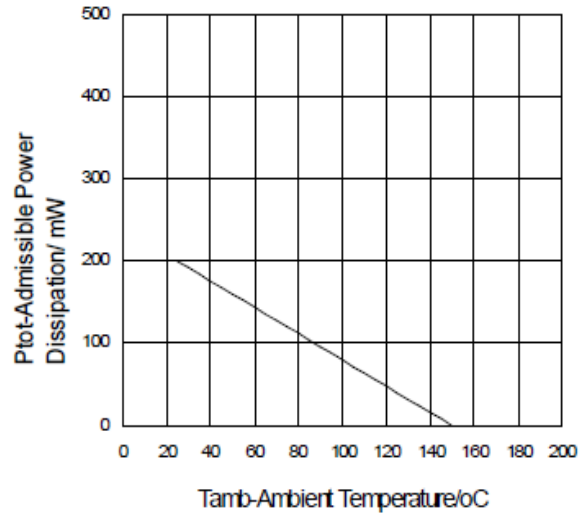


Figure 2. Power De-rating



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