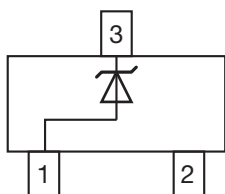
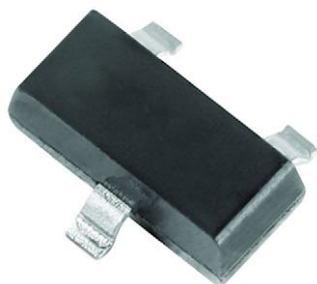


Small Signal Zener Diodes



DESIGN SUPPORT TOOLS


[click logo to get started](#)

PRIMARY CHARACTERISTICS

PARAMETER	VALUE	UNIT
V_Z range nom.	2.4 to 6.2	V
Test current I_{ZT}	0.25	mA
V_Z specification	Pulse current	
Circuit configuration	Single	

FEATURES

- Silicon planar low noise Zener diodes
- 350 mW high quality voltage regulator designed for low leakage, low current and low noise applications
- $\pm 5\%$ tolerance on V_Z
- High temperature soldering guaranteed: 260 °C/4 x 10 s at terminals
- AEC-Q101 qualified available (part number on request)
- ESD capability according to AEC-Q101:
Human body model > 8 kV
Machine model > 800 V
- Base P/N-G3 - green, commercial grade
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

ORDERING INFORMATION

DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY
MMBZ4617-G to MMBZ4627-G	MMBZ4617-G3-08 to MMBZ4627-G3-08	3000 (8 mm tape on 7" reel)	15 000
	MMBZ4617-G3-18 to MMBZ4627-G3-18	10 000 (8 mm tape on 13" reel)	10 000

PACKAGE

PACKAGE NAME	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
SOT-23	8.8 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	260 °C/10 s at terminals

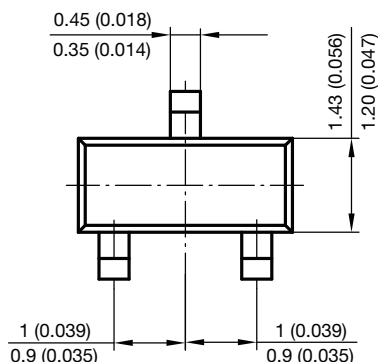
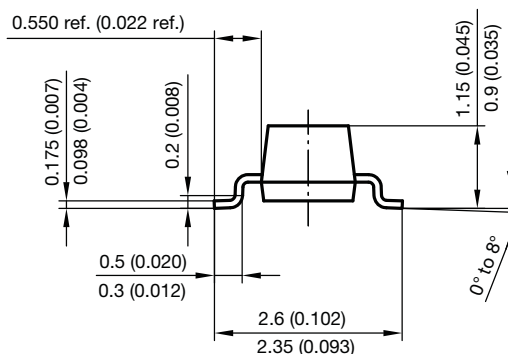
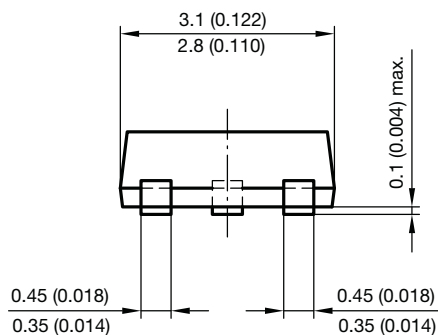
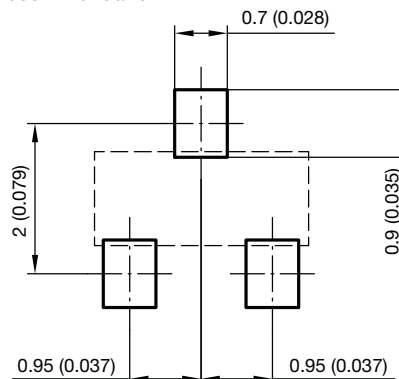
ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25\text{ °C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Power dissipation	On FR - 5 board using recommended solder pad layout	P_{tot}	350	mW
Forward voltage, maximum	$I_F = 200\text{ mA}$	V_F	1.1	V
Forward voltage, typical	$I_F = 200\text{ mA}$	V_F	0.97	V
Thermal resistance junction to ambient air	On FR - 5 board using recommended solder pad layout	R_{thJA}	420	°C/W
Junction temperature		T_j	150	°C
Storage temperature range		T_{stg}	-55 to +150	°C
Operating temperature range		T_{op}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

PART NUMBER	MARKING CODE	ZENER VOLTAGE RANGE ⁽¹⁾			TEST CURRENT	REVERSE LEAKAGE CURRENT		DYNAMIC RESISTANCE	ZENER CURRENT	NOISE DENSITY
		V _Z at I _{ZT1}			I _{ZT1}	I _R at V _R		Z _{ZT} at I _{ZT1}	I _{ZM}	N _D at I _{ZT1}
		V			mA	μA	V	Ω	mA	μV/√Hz
		MIN.	NOM.	MAX.		MAX.		MAX.	MAX.	MAX.
MMBZ4617-G	GA7	2.280	2.4	2.520	0.25	2	1	1400	95	1
MMBZ4618-G	GA8	2.565	2.7	2.835	0.25	1	1	1500	90	1
MMBZ4619-G	GA9	2.850	3	3.150	0.25	0.8	1	1600	85	1
MMBZ4620-G	GB0	3.135	3.3	3.465	0.25	7.5	1.5	1650	80	1
MMBZ4621-G	GB1	3.420	3.6	3.780	0.25	7.5	2	1700	75	1
MMBZ4622-G	GB2	3.705	3.9	4.095	0.25	5	2	1650	70	1
MMBZ4623-G	GB3	4.085	4.3	4.515	0.25	4	2	1600	65	1
MMBZ4624-G	GB4	4.465	4.7	4.935	0.25	10	3	1550	60	1
MMBZ4625-G	GB5	4.845	5.1	5.355	0.25	10	3	1500	55	2
MMBZ4626-G	GB6	5.320	5.6	5.880	0.25	10	4	1400	50	4
MMBZ4627-G	GB7	5.890	6.2	6.510	0.25	10	5	1200	45	5

Note
⁽¹⁾ V_Z tested with 5 ms pulse

PACKAGE DIMENSIONS in millimeters (inches): **SOT-23**

Foot print recommendation:




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