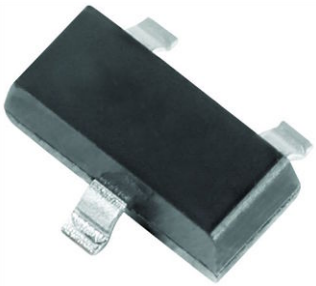
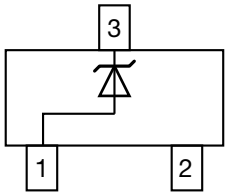
Small Signal Zener Diodes





FEATURES

- Silicon planar low noise Zener diodes
- 350 mW high quality voltage regulator designed for low leakage, low current and low noise applications
- 5 % tolerance on V_Z
- High temperature soldering guaranteed: 260 °C/4 x 10 s at terminals
- AEC-Q101 qualified
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Pb-free

e3

RoHS COMPLIANT

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	
Int. construction	Single	

ORDERING INFORMATION			
DEVICE NAME	**ORDERING CODE**	**TAPED UNITS PER REEL**	**MINIMUM ORDER QUANTITY**
MMBZ4617-V to MMBZ4627-V	MMBZ4617-V to MMBZ4627-V-series-GS18	10 000 (8 mm tape on 13" reel)	10 000/box
MMBZ4617-V to MMBZ4627-V	MMBZ4617-V to MMBZ4627-V-series-GS08	3000 (8 mm tape on 7" reel)	15 000/box

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 °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 mA	V_F	1.1	V
Forward voltage, typical	I_F = 200 mA	V_F	0.97	V
Junction to ambient air	On FR - 5 board using recommended solder pad layout	R_{thJA}	420	°C/W
Junction temperature, maximum		T_j	150	°C
Storage temperature range		T_{stg}	- 55 to + 150	°C

For technical questions within your region: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com

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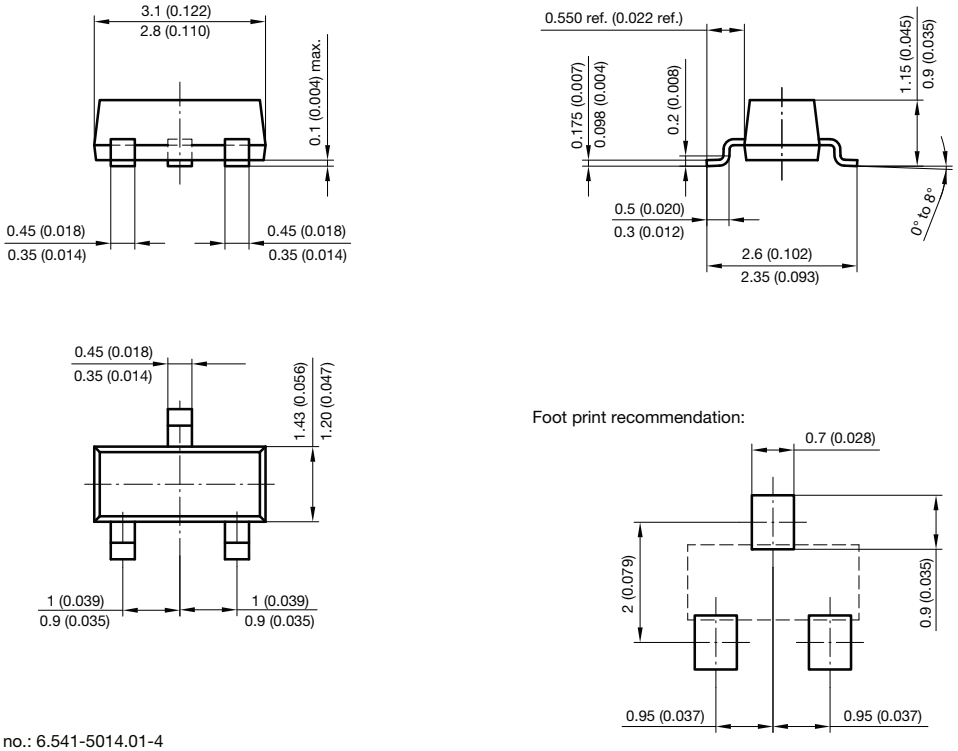
ELECTRICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)

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-V	G17	2.280	2.4	2.520	0.25	2	1	1400	95	1
MMBZ4618-V	G18	2.565	2.7	2.835	0.25	1	1	1500	90	1
MMBZ4619-V	G19	2.850	3	3.150	0.25	0.8	1	1600	85	1
MMBZ4620-V	G20	3.135	3.3	3.465	0.25	7.5	1.5	1650	80	1
MMBZ4621-V	G21	3.420	3.6	3.780	0.25	7.5	2	1700	75	1
MMBZ4622-V	G22	3.705	3.9	4.095	0.25	5	2	1650	70	1
MMBZ4623-V	G23	4.085	4.3	4.515	0.25	4	2	1600	65	1
MMBZ4624-V	G24	4.465	4.7	4.935	0.25	10	3	1550	60	1
MMBZ4625-V	G25	4.845	5.1	5.355	0.25	10	3	1500	55	2
MMBZ4626-V	G26	5.320	5.6	5.880	0.25	10	4	1400	50	4
MMBZ4627-V	G27	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



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