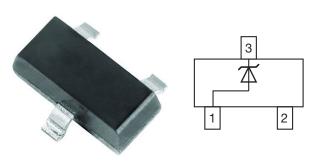


Vishay Semiconductors

Small Signal Zener Diodes



DESIGN SUPPORT TOOLS





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



- 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 <u>www.vishay.com/doc?99912</u>

ı		
	(m)	
	(Pb)	
	Pb-free	



ROHS COMPLIANT HALOGEN FREE

GREEN (5-2008)

ORDERING INFORMATION							
DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL MINIMUM ORD					
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 °C, unless otherwise specified)							
PARAMETER	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			
Thermal resistance junction to ambient air	On FR - 5 board using recommended solder pad layout	R _{thJA}	420	°C/W			
Junction temperature		Tj	150	°C			
Storage temperature range		T _{stg}	-55 to +150	°C			
Operating temperature range		T _{op}	-55 to +150	°C			



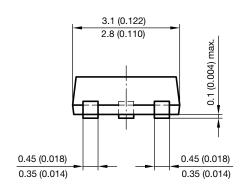
www.vishay.com

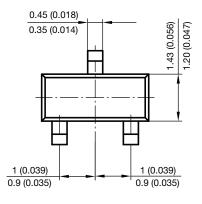
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ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)										
	MARKING CODE	ZENER VOLTAGE RANGE (1) V _Z at I _{ZT1}		TEST CURRENT	LEA	ERSE KAGE RENT	DYNAMIC RESISTANCE	ZENER CURRENT	NOISE DENSITY	
PART NUMBER				I _{ZT1}	I _R at V _R		Z _{ZT} at I _{ZT1}	I _{ZM}	N _D at I _{ZT1}	
		V			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

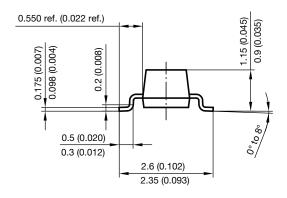
Note

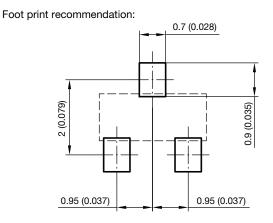
PACKAGE DIMENSIONS in millimeters (inches): SOT-23





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 $^{^{(1)}}$ V_Z tested with 5 ms pulse



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