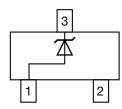


Vishay Semiconductors

Small Signal Zener Diodes





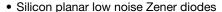
DESIGN SUPPORT TOOLS

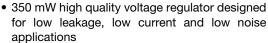
click logo to get started

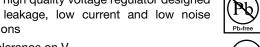


PRIMARY CHARACTERISTICS						
PARAMETER	VALUE	UNIT				
V _Z range nom.	2.4 to 6.2	V				
Test current I _{ZT}	0.25	mA				
V _Z specification	Pulse current					
Circuit configuration	Single					

FEATURES









• High temperature soldering guaranteed: 260 °C / 4 x 10 s at terminals



AUTOMOTIVE GRADE

RoHS COMPLIANT

- AEC-Q101 qualified available
- ESD capability according to AEC-Q101: Human body model > 8 kV Machine model > 800 V
- Base P/N-E3 RoHS-compliant, commercial grade
- Base P/N-HE3 RoHS-compliant, AEC-Q101 qualified
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

ORDERING INFORMATION						
DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY			
MMBZ4617 to MMBZ4627	MMBZ4617-E3-08 to MMBZ4627-E3-08	2000 (9 mm tone on 7" rool)	15 000/box			
	MMBZ4617-HE3-08 to MMBZ4627-HE3-08	- 3000 (8 mm tape on 7" reel)				
	MMBZ4617-E3-18 to MMBZ4627-E3-18	10,000 (8 mm tana an 13" rool)	10 000/box			
	MMBZ4617-HE3-18 to MMBZ4627-HE3-18	10 000 (8 mm tape on 13" reel)				

PACKAGE							
PACKAGE NAME	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			
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			



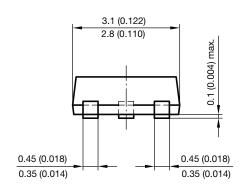
www.vishay.com

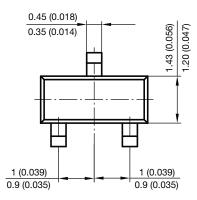
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ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)										
PART NUMBER	MARKING CODE	ZENER V	OLTAGE	RANGE (1)	TEST CURRENT	REVERSE LEAKAGE CURRENT		DYNAMIC RESISTANCE	ZENER CURRENT	NOISE DENSITY
		V _Z at I _{ZT1}		I _{ZT1}	I _R at V _R		Z _{ZT} at I _{ZT1}	I _{ZM} mA	N _D at I _{ZT1} μV/√Hz	
		V			μA V					
		MIN.	NOM.	MAX.		MAX.		MAX.	MAX.	MAX.
MMBZ4617	G17	2.280	2.4	2.520	0.25	2	1	1400	95	1
MMBZ4618	G18	2.565	2.7	2.835	0.25	1	1	1500	90	1
MMBZ4619	G19	2.850	3	3.150	0.25	0.8	1	1600	85	1
MMBZ4620	G20	3.135	3.3	3.465	0.25	7.5	1.5	1650	80	1
MMBZ4621	G21	3.420	3.6	3.780	0.25	7.5	2	1700	75	1
MMBZ4622	G22	3.705	3.9	4.095	0.25	5	2	1650	70	1
MMBZ4623	G23	4.085	4.3	4.515	0.25	4	2	1600	65	1
MMBZ4624	G24	4.465	4.7	4.935	0.25	10	3	1550	60	1
MMBZ4625	G25	4.845	5.1	5.355	0.25	10	3	1500	55	2
MMBZ4626	G26	5.320	5.6	5.880	0.25	10	4	1400	50	4
MMBZ4627	G27	5.890	6.2	6.510	0.25	10	5	1200	45	5

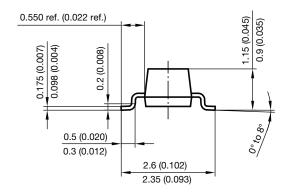
Note

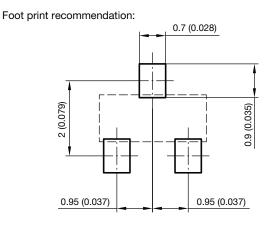
PACKAGE DIMENSIONS in millimeters (inches): SOT-23





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



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