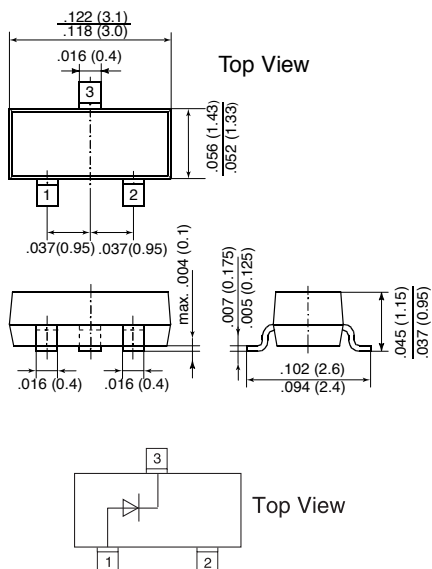


MMBZ4617 THRU MMBZ4627

ZENER DIODES

SOT-23



Dimensions in inches and (millimeters)

FEATURES

- ◆ Silicon Planar Low Noise Zener Diodes
- ◆ 350mW high quality voltage regulator designed for low leakage, low current and low noise applications
- ◆ 5% Tolerance on V_z
- ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals.



MECHANICAL DATA

Case: SOT-23 Plastic Package

Weight: approx. 0.008 g

Terminals: Solderable per MIL-STD-750, method 2026.

MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOL	VALUE	UNIT
Power Dissipation	P_{tot}	350 ⁽¹⁾	mW
Forward Voltage at $I_F = 200$ mA	V_F	1.1 0.97	Volts
Maximum Junction Temperature	T_j	150	°C
Storage Temperature Range	T_s	-55 to +150	°C
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	420 ⁽¹⁾	°C/W

NOTES:

(1) On FR-5 board using recommended solder pad layout.

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ELECTRICAL CHARACTERISTICS

(T_A = 25°C unless otherwise noted)

Part Number	Marking Code	Zener ⁽¹⁾ Voltage V _Z @ I _{ZT}	Test Current I _{ZT}	Max. Zener Impedance Z _{ZT} @ I _{ZT}	Max. Reverse Leakage Current I _R @ V _R		Max. Zener Current I _{ZM}	Max. Noise Density N _D @ I _{ZT} = 250μA
		Volts	μA	Ω	μA	Volts	mA	$\frac{\mu V}{\sqrt{Hz}}$
MMBZ4617	G17	2.4	250	1400	2.0	1.0	95	1.0
MMBZ4618	G18	2.7	250	1500	1.0	1.0	90	1.0
MMBZ4619	G19	3.0	250	1600	0.8	1.0	85	1.0
MMBZ4620	G20	3.3	250	1650	7.5	1.5	80	1.0
MMBZ4621	G21	3.6	250	1700	7.5	2.0	75	1.0
MMBZ4622	G22	3.9	250	1650	5.0	2.0	70	1.0
MMBZ4623	G23	4.3	250	1600	4.0	2.0	65	1.0
MMBZ4624	G24	4.7	250	1550	10	3.0	60	1.0
MMBZ4625	G25	5.1	250	1500	10	3.0	55	2.0
MMBZ4626	G26	5.6	250	1400	10	4.0	50	4.0
MMBZ4627	G27	6.2	250	1200	10	5.0	45	5.0

NOTES:

(1) V_Z tested with 5ms pulse.