



MMSZ5263B

500mW SURFACE MOUNT ZENER DIODE

Features

- Planar Die Construction
- 500mW Power Dissipation
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes
- Lead, Halogen and Antimony Free, RoHS Compliant
- "Green" Device (Note 4)
- Qualified to AEC-Q101 Standards for High Reliability

Mechanical Data

- Case: SOD-123
- Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Matte Tin Finish annealed over Alloy 42 leadframe (Lead Free Plating). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking Information: See Page 2
- Ordering Information: See Page 2
- Weight: 0.01 grams (approximate)



Top View

Maximum Ratings $@T_A = 25^{\circ}C$ unless otherwise specified

Characteristic		Symbol	Value	Unit
Forward Voltage (Note 3)	@ I _F = 10mA	VF	0.9	V

Thermal Characteristics

			· · · ·
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1) @T _L = 75°C	PD	500	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{0JA}	350	°C/W
Thermal Resistance, Junction to Lead (Note 2)	R _{0JL}	150	°C/W
Operating and Storage Temperature Range	T _{J,} T _{STG}	-65 to +150	°C

Electrical Characteristics @T_A = 25°C unless otherwise specified

_	_	Zener V	oltage Range	(Note 3)	Test Current	Maximu Impedanc			n Reverse rent (Note 3)
Type Number	Type Code	Vz @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK} = 0.25mA	I _R	@ V _R
		Nom (V)	Min (V)	Max (V)	mA	2	2	μΑ	v
MMSZ5263B	M8	56	53.20	58.80	2.2	150	1300	0.1	43

Notes: 1. Device mounted on FR-4 substrate, single-sided, PC boards, with minimum recommended pad layout.

2. Thermal Resistance measurement obtained via infrared scan method.

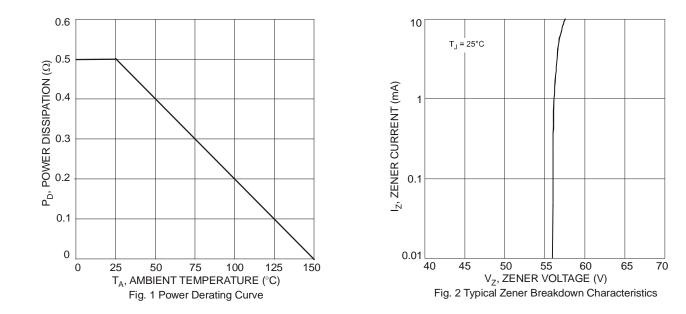
3. Short duration pulse test used to minimize self-heating effect.

4. No purposefully added lead. Halogen and Antimony Free.

5. f = 1KHz.



MMSZ5263B



Ordering Information (Note 5)

Part Number	Packaging	Shipping
MMSZ5263B-7-F	SOD-123	3000/Tape & Reel

Notes: 5. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information

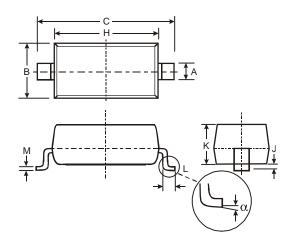


M8 = Product Type Marking Code (See Electrical Characteristics Table) YM = Date Code Marking Y = Year (ex: W = 2009) M = Month (ex: 9 = September)

Date	Code	Kev
Dale	Coue	rtey

Year	200	9	2010		2011	20	12	2013		2014	1	2015
Code	W		Х		Y	2	Ζ	А		В		С
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D

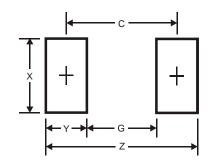
Package Outline Dimensions



SOD-123					
Dim	Min	Max			
Α	0.55	Тур			
В	1.40	1.70			
с	3.55	3.85			
Н	2.55	2.85			
ر	0.00	0.10			
κ	1.00	1.35			
L	0.25	0.40			
М	0.10	0.15			
α	0	8°			
All Di	mensions	s in mm			



Suggested Pad Layout



Dimensions	Value (in mm)
Z	4.9
G	2.5
Х	0.7
Y	1.2
С	3.7

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