

Excellent Integrated System Limited

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Diodes Incorporated MMSZ5263B-7-F

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Diodes Incorporated: Excellent Integrated System Limited Datasheet of MMSZ5263B-7-F - DIODE ZENER 56V 500MW SOD123 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





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	V _F	0.9	V

Thermal Characteristics

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

Electrical Characteristics @T_A = 25°C unless otherwise specified

		Zener Voltage Range (Note 3)			Test Current	Maximu Impedanc		Maximum Leakage Cur	n Reverse rrent (Note 3)
Type Number	Type Code	Vz @ Izt			Izt	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

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.

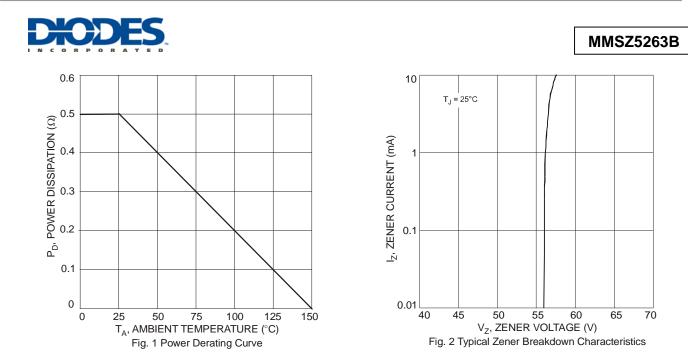
4. No purposefully added lead. Halogen and Antimony Free.

5. f = 1KHz.

Notes:



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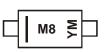


Ordering Information (Note 5)

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.

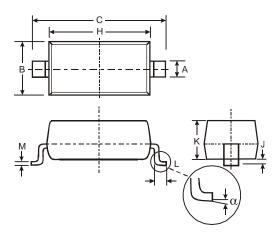
Marking Information



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 Key												
Year	2009	Э	2010		2011	20	12	2013		2014		2015
Code	W		Х		Y	2	7	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	Ν	D

Package Outline Dimensions



SOD-123					
Dim	Min Max				
Α	0.55	Тур			
в	1.40	1.70			
с	3.55	3.85			
H	2.55	2.85			
J	0.00	0.10			
κ	1.00	1.35			
1	0.25	0.40			
Μ	0.10	0.15			
α	0	8°			
All Di	mensions	s in mm			

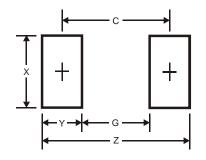


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MMSZ5263B

Suggested Pad Layout



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

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