

Product Overview

1SMB59: 3.0 W Zener Diode Voltage Regulator

For complete documentation, see the data sheet.

This 3.0 W Zener diode is designed for general purpose voltage regulation applications.

Features

- Zener Voltage Range - 3.3 V to 200 V
- ESD Rating of Class 3 (>16 KV) per Human Body Model
- Flat Handling Surface for Accurate Placement
- Package Design for Top Side or Bottom Circuit Board Mounting
- CASE: Void-free, transfer-molded plastic
- FINISH: All external surfaces are corrosion resistant with readily solderable leads
- MAXIMUM CASE TEMPERATURE FOR SOLDERING PURPOSES: 260°C for 10 seconds
- LEADS: Modified L-Bend providing more contact area to bond pads
- POLARITY: Cathode indicated by molded polarity notch.
- FLAMMABILITY RATING: UL94 V-0

For more features, see the data sheet

Applications

- Voltage Regulation
- Waveform Clipping
- MOSFET Gate Protection

Benefits

- Wide Range of Zener Breakdown Voltages

End Products

- General Usage Device: Suitable for many different end products

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	V _z Typ (V)	P Max (W)	Package Type
1SMB5913BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	3.3	3	SMB-2
1SMB5914BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	3.6	3	SMB-2
1SMB5915BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	3.9	3	SMB-2
1SMB5916BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	4.3	3	SMB-2
1SMB5917BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	4.7	3	SMB-2
1SMB5918BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	5.1	3	SMB-2
1SMB5919BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	5.6	3	SMB-2
1SMB5920BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	6.2	3	SMB-2
1SMB5921BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	6.8	3	SMB-2
1SMB5922BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	7.5	3	SMB-2
1SMB5923BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	8.2	3	SMB-2
1SMB5924BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	9.1	3	SMB-2

1SMB5925BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	10	3	SMB-2
1SMB5926BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	11	3	SMB-2
1SMB5927BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	12	3	SMB-2
1SMB5928BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	13	3	SMB-2
1SMB5929BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	15	3	SMB-2
1SMB5930BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	16	3	SMB-2
1SMB5931BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	18	3	SMB-2
1SMB5932BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	20	3	SMB-2
1SMB5933BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	22	3	SMB-2
1SMB5934BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	24	3	SMB-2
1SMB5935BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	27	3	SMB-2
1SMB5936BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	30	3	SMB-2
1SMB5937BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	33	3	SMB-2

1SMB5938BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	36	3	SMB-2
1SMB5939BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	39	3	SMB-2
1SMB5940BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	43	3	SMB-2
1SMB5941BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	47	3	SMB-2
1SMB5942BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	51	3	SMB-2
1SMB5943BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	56	3	SMB-2
1SMB5944BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	62	3	SMB-2
1SMB5945BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	68	3	SMB-2
1SMB5946BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	75	3	SMB-2
1SMB5947BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	82	3	SMB-2
1SMB5948BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	91	3	SMB-2
1SMB5949BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	100	3	SMB-2
1SMB5951BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	120	3	SMB-2

1SMB5952BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	130	3	SMB-2
1SMB5953BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	150	3	SMB-2
1SMB5954BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	160	3	SMB-2
1SMB5955BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	180	3	SMB-2
1SMB5956BT3G	0.0987	Pb-free Halide free non AEC-Q and PPAP	Active	200	3	SMB-2
SZ1SMB5913BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.3	3	SMB-2
SZ1SMB5914BT3G	0.2311	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.6	3	SMB-2
SZ1SMB5915BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.9	3	SMB-2
SZ1SMB5916BT3G	0.2597	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.3	3	SMB-2
SZ1SMB5917BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.7	3	SMB-2
SZ1SMB5918BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.1	3	SMB-2

SZ1SMB5919BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.6	3	SMB-2
SZ1SMB5920BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.2	3	SMB-2
SZ1SMB5921BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.8	3	SMB-2
SZ1SMB5922BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	7.5	3	SMB-2
SZ1SMB5923BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	8.2	3	SMB-2
SZ1SMB5924BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	9.1	3	SMB-2
SZ1SMB5925BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	10	3	SMB-2
SZ1SMB5926BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	11	3	SMB-2
SZ1SMB5927BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	12	3	SMB-2
SZ1SMB5928BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	13	3	SMB-2
SZ1SMB5929BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	15	3	SMB-2

SZ1SMB5930BT3G	0.2924	AEC Qualified PPAP Capable Pb-free Halide free	Active	16	3	SMB-2
SZ1SMB5931BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	18	3	SMB-2
SZ1SMB5932BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	20	3	SMB-2
SZ1SMB5933BT3G	0.2311	AEC Qualified PPAP Capable Pb-free Halide free	Active	22	3	SMB-2
SZ1SMB5934BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	24	3	SMB-2
SZ1SMB5935BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	27	3	SMB-2
SZ1SMB5936BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	30	3	SMB-2
SZ1SMB5937BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	33	3	SMB-2
SZ1SMB5938BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	36	3	SMB-2
SZ1SMB5939BT3G	0.2311	AEC Qualified PPAP Capable Pb-free Halide free	Active	39	3	SMB-2
SZ1SMB5940BT3G	0.2619	AEC Qualified PPAP Capable Pb-free Halide free	Active	43	3	SMB-2

SZ1SMB5941BT3G	0.2311	AEC Qualified PPAP Capable Pb-free Halide free	Active	47	3	SMB-2
SZ1SMB5942BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	51	3	SMB-2
SZ1SMB5943BT3G	0.2156	AEC Qualified PPAP Capable Pb-free Halide free	Active	56	3	SMB-2
SZ1SMB5944BT3G	0.2311	AEC Qualified PPAP Capable Pb-free Halide free	Active	62	3	SMB-2
SZ1SMB5945BT3G	0.2783	AEC Qualified PPAP Capable Pb-free Halide free	Active	68	3	SMB-2
SZ1SMB5946BT3G	0.2156	AEC Qualified PPAP Capable Pb-free Halide free	Active	75	3	SMB-2
SZ1SMB5947BT3G	0.2311	AEC Qualified PPAP Capable Pb-free Halide free	Active	82	3	SMB-2
SZ1SMB5948BT3G	0.2053	AEC Qualified PPAP Capable Pb-free Halide free	Active	91	3	SMB-2
SZ1SMB5949BT3G	0.2156	AEC Qualified PPAP Capable Pb-free Halide free	Active	100	3	SMB-2
SZ1SMB5951BT3G	0.2053	AEC Qualified PPAP Capable Pb-free Halide free	Active	120	3	SMB-2
SZ1SMB5952BT3G	0.2053	AEC Qualified PPAP Capable Pb-free Halide free	Active	130	3	SMB-2

SZ1SMB5953BT3G	0.22	AEC Qualified	Active	150	3	SMB-2
		PPAP Capable				
		Pb-free				
		Halide free				
SZ1SMB5956BT3G	0.2783	AEC Qualified	Active	200	3	SMB-2
		PPAP Capable				
		Pb-free				
		Halide free				

For more information please contact your local sales support at www.onsemi.com.

Created on: 5/9/2021