

Product Overview

BZX84: 250 mW; Zener Diode Voltage Regulator

For complete documentation, see the data sheet.

This series of Zener diodes is offered in the convenient, surface mount plastic SOT-23 package. These devices are designed to provide voltage regulation with minimum space requirement. They are well suited for applications such as cellular phones, hand held portables, and high density PC boards.

Features

- Zener Breakdown Voltage Range - 2.4 V to 75 V
- 250 mW Rating on FR-4 or FR-5 Board
- Package Designed for Optimal Automated Board Assembly
- Small Package Size for High Density Applications
- ESD Rating of Class 3 (>16 KV) per Human Body Model
- Mechanical Characteristics:
- CASE: Void-free, transfer-molded, thermosetting plastic case
- FINISH: Corrosion resistant finish, easily solderable
- MAXIMUM CASE TEMPERATURE FOR SOLDERING PURPOSES: 260°C for 10 Seconds
- POLARITY: Cathode indicated by polarity band

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
BZX84B10LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	10	0.25	SOT-23-3
BZX84B12LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	12	0.25	SOT-23-3
BZX84B15LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	15	0.25	SOT-23-3
BZX84B16LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	16	0.25	SOT-23-3
BZX84B18LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	18	0.25	SOT-23-3
BZX84B22LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	22	0.25	SOT-23-3
BZX84B24LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	24	0.25	SOT-23-3
BZX84B27LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	27	0.25	SOT-23-3
BZX84B3V3LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	3.3	0.25	SOT-23-3
BZX84B4V7LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	4.7	0.25	SOT-23-3
BZX84B5V1LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	5.1	0.25	SOT-23-3
BZX84B5V6LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	5.6	0.25	SOT-23-3

BZX84B6V2LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	6.2	0.25	SOT-23-3
BZX84B6V8LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	6.8	0.25	SOT-23-3
BZX84B7V5LT1G	0.0217	Pb-free Halide free non AEC-Q and PPAP	Active	7.5	0.25	SOT-23-3
BZX84B8V2LT1G	0.0144	Pb-free Halide free non AEC-Q and PPAP	Active	8.2	0.25	SOT-23-3
BZX84B9V1LT1G	0.0187	Pb-free Halide free non AEC-Q and PPAP	Active	9.1	0.25	SOT-23-3
BZX84C10LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	10	0.25	SOT-23-3
BZX84C11LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	11	0.25	SOT-23-3
BZX84C12LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	12	0.25	SOT-23-3
BZX84C13LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	13	0.25	SOT-23-3
BZX84C13LT3G		Pb-free Halide free non AEC-Q and PPAP	ProductPreview	13	0.25	SOT-23-3
BZX84C15LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	15	0.25	SOT-23-3
BZX84C15LT3G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	15	0.25	SOT-23-3
BZX84C16LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	16	0.25	SOT-23-3

BZX84C18LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	18	0.25	SOT-23-3
BZX84C18LT3G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	18	0.25	SOT-23-3
BZX84C20LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	20	0.25	SOT-23-3
BZX84C22LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	22	0.25	SOT-23-3
BZX84C24LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	24	0.25	SOT-23-3
BZX84C27LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	27	0.25	SOT-23-3
BZX84C2V4LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	2.4	0.25	SOT-23-3
BZX84C2V7LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	2.7	0.25	SOT-23-3
BZX84C30LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	30	0.25	SOT-23-3
BZX84C33LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	33	0.25	SOT-23-3
BZX84C33LT3G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	33	0.25	SOT-23-3
BZX84C36LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	36	0.25	SOT-23-3
BZX84C39LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	39	0.25	SOT-23-3

BZX84C3V0LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	3	0.25	SOT-23-3
BZX84C3V3LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	3.3	0.25	SOT-23-3
BZX84C3V6LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	3.6	0.25	SOT-23-3
BZX84C3V9LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	3.9	0.25	SOT-23-3
BZX84C43LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	43	0.25	SOT-23-3
BZX84C47LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	47	0.25	SOT-23-3
BZX84C4V3LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	4.3	0.25	SOT-23-3
BZX84C4V3LT3G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	4.3	0.25	SOT-23-3
BZX84C4V7LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	4.7	0.25	SOT-23-3
BZX84C4V7LT3G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	4.7	0.25	SOT-23-3
BZX84C51LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	51	0.25	SOT-23-3
BZX84C56LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	56	0.25	SOT-23-3
BZX84C5V1LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	5.1	0.25	SOT-23-3

BZX84C5V1LT3G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	5.1	0.25	SOT-23-3
BZX84C5V6LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	5.6	0.25	SOT-23-3
BZX84C5V6LT3G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	5.6	0.25	SOT-23-3
BZX84C62LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	62	0.25	SOT-23-3
BZX84C68LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	68	0.25	SOT-23-3
BZX84C6V2LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	6.2	0.25	SOT-23-3
BZX84C6V2LT3G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	6.2	0.25	SOT-23-3
BZX84C6V8LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	6.8	0.25	SOT-23-3
BZX84C6V8LT3G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	6.8	0.25	SOT-23-3
BZX84C75LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	75	0.25	SOT-23-3
BZX84C7V5LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	7.5	0.25	SOT-23-3
BZX84C8V2LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	8.2	0.25	SOT-23-3
BZX84C9V1LT1G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	9.1	0.25	SOT-23-3

BZX84C9V1LT3G	0.0165	Pb-free Halide free non AEC-Q and PPAP	Active	9.1	0.25	SOT-23-3
SZBZX84B10LT1G	0.0243	AEC Qualified PPAP Capable Pb-free Halide free	Active	10	0.25	SOT-23-3
SZBZX84B12LT1G	0.0241	AEC Qualified PPAP Capable Pb-free Halide free	Active	12	0.25	SOT-23-3
SZBZX84B15LT1G	0.0241	AEC Qualified PPAP Capable Pb-free Halide free	Active	15	0.25	SOT-23-3
SZBZX84B16LT1G	0.0219	AEC Qualified PPAP Capable Pb-free Halide free	Active	16	0.25	SOT-23-3
SZBZX84B18LT1G	0.0241	AEC Qualified PPAP Capable Pb-free Halide free	Active	18	0.25	SOT-23-3
SZBZX84B22LT1G	0.0229	AEC Qualified PPAP Capable Pb-free Halide free	Active	22	0.25	SOT-23-3
SZBZX84B24LT1G	0.0241	AEC Qualified PPAP Capable Pb-free Halide free	Active	24	0.25	SOT-23-3
SZBZX84B27LT1G	0.0229	AEC Qualified PPAP Capable Pb-free Halide free	Active	27	0.25	SOT-23-3
SZBZX84B3V3LT1G	0.0243	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.3	0.25	SOT-23-3
SZBZX84B4V7LT1G	0.0243	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.7	0.25	SOT-23-3

SZBZX84B5V1LT1G	0.0219	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.1	0.25	SOT-23-3
SZBZX84B5V6LT1G	0.0219	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.6	0.25	SOT-23-3
SZBZX84B6V2LT1G	0.0219	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.2	0.25	SOT-23-3
SZBZX84B6V8LT1G	0.0219	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.8	0.25	SOT-23-3
SZBZX84B7V5LT1G	0.0243	AEC Qualified PPAP Capable Pb-free Halide free	Active	7.5	0.25	SOT-23-3
SZBZX84B8V2LT1G	0.0229	AEC Qualified PPAP Capable Pb-free Halide free	Active	8.2	0.25	SOT-23-3
SZBZX84B9V1LT1G	0.0229	AEC Qualified PPAP Capable Pb-free Halide free	Active	9.1	0.25	SOT-23-3
SZBZX84B9V1LT3G	0.0241	AEC Qualified PPAP Capable Pb-free Halide free	Active	9.1	0.25	SOT-23-3
SZBZX84C10LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	10	0.25	SOT-23-3
SZBZX84C11LT1G	0.0173	AEC Qualified PPAP Capable Pb-free Halide free	Active	11	0.25	SOT-23-3
SZBZX84C11LT3G	0.0461	AEC Qualified PPAP Capable Pb-free Halide free	Active	11	0.25	SOT-23-3

SZBZX84C12LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	12	0.25	SOT-23-3
SZBZX84C12LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	12	0.25	SOT-23-3
SZBZX84C13LT1G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	13	0.25	SOT-23-3
SZBZX84C13LT3G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	13	0.25	SOT-23-3
SZBZX84C15LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	15	0.25	SOT-23-3
SZBZX84C15LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	15	0.25	SOT-23-3
SZBZX84C16LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	16	0.25	SOT-23-3
SZBZX84C16LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	16	0.25	SOT-23-3
SZBZX84C18LT1G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	18	0.25	SOT-23-3
SZBZX84C18LT3G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	18	0.25	SOT-23-3
SZBZX84C20LT1G	0.0173	AEC Qualified PPAP Capable Pb-free Halide free	Active	20	0.25	SOT-23-3

SZBZX84C22LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	22	0.25	SOT-23-3
SZBZX84C22LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	22	0.25	SOT-23-3
SZBZX84C24LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	24	0.25	SOT-23-3
SZBZX84C27LT1G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	27	0.25	SOT-23-3
SZBZX84C27LT3G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	27	0.25	SOT-23-3
SZBZX84C2V4LT1G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	2.4	0.25	SOT-23-3
SZBZX84C2V7LT1G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	2.7	0.25	SOT-23-3
SZBZX84C30LT1G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	30	0.25	SOT-23-3
SZBZX84C33LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	33	0.25	SOT-23-3
SZBZX84C33LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	33	0.25	SOT-23-3
SZBZX84C36LT1G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	36	0.25	SOT-23-3

SZBZX84C36LT3G	0.0616	AEC Qualified PPAP Capable Pb-free Halide free	Active	36	0.25	SOT-23-3
SZBZX84C39LT1G	0.0728	AEC Qualified PPAP Capable Pb-free Halide free	Active	39	0.25	SOT-23-3
SZBZX84C39LT3G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	39	0.25	SOT-23-3
SZBZX84C3V0LT1G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	3	0.25	SOT-23-3
SZBZX84C3V3LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.3	0.25	SOT-23-3
SZBZX84C3V3LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.3	0.25	SOT-23-3
SZBZX84C3V6LT1G	0.0173	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.6	0.25	SOT-23-3
SZBZX84C3V6LT3G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.6	0.25	SOT-23-3
SZBZX84C3V9LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	3.9	0.25	SOT-23-3
SZBZX84C43LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	43	0.25	SOT-23-3
SZBZX84C47LT1G	0.0173	AEC Qualified PPAP Capable Pb-free Halide free	Active	47	0.25	SOT-23-3

SZBZX84C47LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	47	0.25	SOT-23-3
SZBZX84C4V3LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.3	0.25	SOT-23-3
SZBZX84C4V3LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.3	0.25	SOT-23-3
SZBZX84C4V7LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.7	0.25	SOT-23-3
SZBZX84C4V7LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	4.7	0.25	SOT-23-3
SZBZX84C51LT1G	0.0173	AEC Qualified PPAP Capable Pb-free Halide free	Active	51	0.25	SOT-23-3
SZBZX84C56LT1G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	56	0.25	SOT-23-3
SZBZX84C5V1LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.1	0.25	SOT-23-3
SZBZX84C5V1LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.1	0.25	SOT-23-3
SZBZX84C5V6LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.6	0.25	SOT-23-3
SZBZX84C5V6LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	5.6	0.25	SOT-23-3

SZBZX84C62LT1G	0.0173	AEC Qualified PPAP Capable Pb-free Halide free	Active	62	0.25	SOT-23-3
SZBZX84C68LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	68	0.25	SOT-23-3
SZBZX84C6V2LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.2	0.25	SOT-23-3
SZBZX84C6V2LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.2	0.25	SOT-23-3
SZBZX84C6V8LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.8	0.25	SOT-23-3
SZBZX84C6V8LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	6.8	0.25	SOT-23-3
SZBZX84C75LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	75	0.25	SOT-23-3
SZBZX84C7V5LT1G	0.0165	AEC Qualified PPAP Capable Pb-free Halide free	Active	7.5	0.25	SOT-23-3
SZBZX84C7V5LT3G	0.0173	AEC Qualified PPAP Capable Pb-free Halide free	Active	7.5	0.25	SOT-23-3
SZBZX84C8V2LT1G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	8.2	0.25	SOT-23-3
SZBZX84C8V2LT3G	0.0183	AEC Qualified PPAP Capable Pb-free Halide free	Active	8.2	0.25	SOT-23-3

SZBZX84C9V1LT1G	0.0183	AEC Qualified	Active	9.1	0.25	SOT-23-3
		PPAP Capable				
		Pb-free				
		Halide free				
SZBZX84C9V1LT3G	0.0183	AEC Qualified	Active	9.1	0.25	SOT-23-3
		PPAP Capable				
		Pb-free				
		Halide free				

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

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