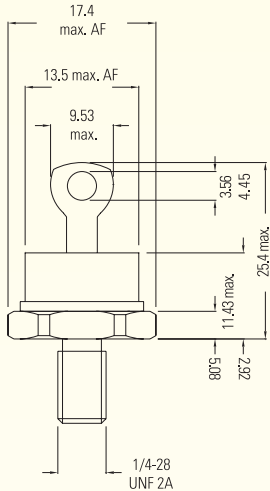




BZY91 Series



Control over power



All dimensions in mm

AVAILABLE IN THE FOLLOWING CONFIGURATIONS:



Stud Cathode Normal



Stud Anode Reverse

Quality, Affordable Voltage Regulation

Whether you need stable, steady state voltage regulation for a new design, or in support of an existing product, you can rely on Crydom Zeners/Studs for high quality and performance, short delivery times, and competitive pricing.

MAXIMUM RATINGS

- Voltage range: 7.5-75 V
- 5000 watt peak pulse power
- 100 watt steady state @ 25°C
- 75 watt steady state @ 65°C

FEATURES

- Glass passivated junction
- 5000 watt surge capability at 1 ms
- Typically IR less than 1 µA above 10 V
- Excellent clamping capability
- Stud cathode and stud anode
- 100% tested
- Operating temperature: -55°C to +175°C

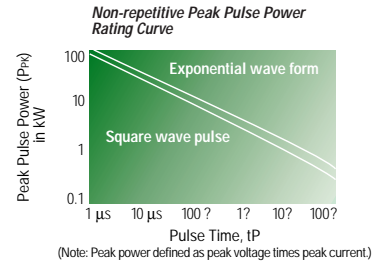
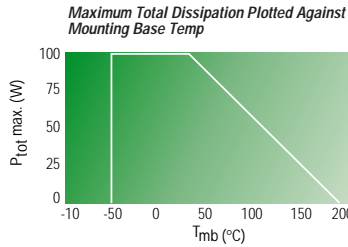
PART NUMBER	ZENER VOLTAGE Vz (V) @ Iz		Iz (A)	ZENER RESISTANCE Rz (Ω) @ Iz		MAXIMUM REVERSE LEAKAGE Ir @ Vr	
	TYP.	MAX.		TYP.	MAX.	(mA)	(V)
BZY91C7V5	7.0	7.9	5.0	0.04	0.2	5.0	5.1
BZY91C8V2	7.7	8.7	5.0	0.06	0.3	5.0	5.6
BZY91C9V1	8.5	9.6	2.0	0.08	0.4	5.0	6.2
BZY91C10	9.4	10.6	2.0	0.08	0.4	1.0	6.8
BZY91C11	10.4	11.6	2.0	0.08	0.4	1.0	7.5
BZY91C12	11.4	12.7	2.0	0.10	0.5	1.0	8.2
BZY91C13	12.4	14.1	2.0	0.10	0.5	1.0	9.1
BZY91C15	13.8	15.6	2.0	0.12	0.6	1.0	10.0
BZY91C16	15.3	17.1	2.0	0.12	0.6	1.0	11.0
BZY91C18	16.8	19.1	2.0	0.14	0.7	1.0	12.0
BZY91C20	18.8	21.2	1.0	0.16	0.8	1.0	13.0
BZY91C22	20.8	23.3	1.0	0.16	0.8	1.0	15.0
BZY91C24	22.7	25.9	1.0	0.18	0.9	1.0	16.0
BZY91C27	25.1	28.9	1.0	0.20	1.0	1.0	18.0
BZY91C30	28.0	32.0	1.0	0.22	1.1	1.0	20.0
BZY91C33	31.0	35.0	1.0	0.24	1.2	1.0	22.0
BZY91C36	34.0	38.0	1.0	0.26	1.3	1.0	24.0
BZY91C39	37.0	41.0	0.5	0.28	1.4	1.0	27.0
BZY91C43	40.0	46.0	0.5	0.30	1.5	1.0	30.0
BZY91C47	44.0	50.0	0.5	0.34	1.7	1.0	33.0
BZY91C51	48.0	54.0	0.5	0.36	1.8	1.0	36.0
BZY91C56	52.0	60.0	0.5	0.4	2.0	1.0	39.0
BZY91C62	58.0	66.0	0.5	0.44	2.2	1.0	43.0
BZY91C68	64.0	72.0	0.5	0.48	2.4	1.0	47.0
BZY91C75	70.0	79.0	0.5	0.51	2.6	1.0	51.0

Note: Suffix "R" denotes stud anode reverse. Electrical specifications @ 25°C.

To Order: 1-877-502-5500 Fax: 1-619-715-7280



BZY91 Series



Specify Crydom

...for these industry-leading components and products:

- **Solid State Relays**
Printed Circuit Board Mount
Panel Mount
DIN Rail Mount
- **Power Cubes**
- **I/O Modules**
- **Transient Voltage Suppression Components**
TVS Diodes
Thyristor Suppression Devices
Gas Discharge Tubes (GDT)
Zeners/Studs
Hybrid Arrester Devices

MECHANICAL CHARACTERISTICS

- Case: Hermetically sealed D05 outline
- Finish: All external surfaces are corrosion resistant and terminal solderable
- Polarity: Indicated by direction of zener symbol
- Weight: 14 grams excluding mounting kit (approx.)

ELECTRICAL DATA

- Forward voltage V_F 1.5 V max. @
 $I_F \leq 10$ A 300 μ s square wave pulse
- V_Z measured with pulse ≤ 100 μ s and duty cycle ≤ 0.001
- R_Z determined with DC plus 10% superimposed AC @ 1kHz

Ordering Information

For recommended applications and more information contact:

Sales: 1-877-502-5500

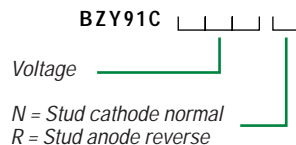
Technical support: 1-877-702-7700

Corporate Headquarters: 1-619-715-7200

Fax: 1-619-715-7280

E-mail: sales@crydom.com

Website: www.crydom.com



About Crydom

Over the years Crydom has become the supplier of choice for advanced, high-quality products like those featured here. It's the result of our teams of design and production engineers – material, production control, and quality assurance experts, and more – working seamlessly together to create, produce, and deliver superior components and products that satisfy the most demanding environmental and performance requirements. We focus on timely delivery and competitive pricing aimed at meeting your needs and helping you succeed in today's fast-paced, fast-changing global markets.

Crydom

9525 Chesapeake Drive
San Diego, CA 92123 USA



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FASTFAX Product Info: 1-888-267-9191