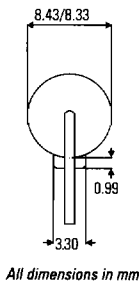
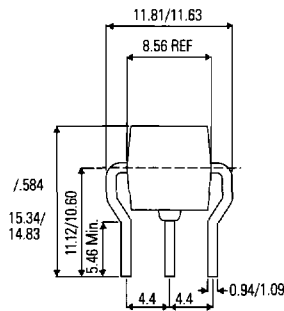


**T10C Series**

**CRYDOM**

Control over power



All dimensions in mm

**“Crow Bar” Protection**

To protect sensitive telecommunications circuitry, Crydom Thyristors (SiBOD™ Breakover Devices) “crow bar” potentially dangerous transients – switching them to ground and dissipating the voltage to zero. This approach can handle more energy than TVS diode “clamping.”

**APPLICATION**

Bi-directional device for telephone and line card protection.

**FEATURES**

- Glass passivated junction
- High current diverting capability, 250 A
- Low capacitance, less than 200 pF
- UL listed
- Automatic reset
- Does not degrade

**ELECTRICAL CHARACTERISTICS (T<sub>j</sub> = 25°C)**

SYMBOL	PARAMETER
V <sub>RM</sub>	Stand-off voltage
V <sub>BR</sub>	Breakdown voltage
I <sub>H</sub>	Holding current

**ABSOLUTE RATINGS (LIMITING VALUES) (T<sub>J</sub> + 25°C) L = 10 mm**

SYMBOL	PARAMETER		T10C	
			VALUE	UNIT
P	Power dissipation on infinite heatsink	T <sub>amb</sub> = 50°C	5	W
I <sub>PP</sub>	Peak pulse current	10 X 1000 μs	100	A
		10/700 1.5 kV	125	
		8-20 μs expo	250	
I <sub>TSM</sub>	Non-repetitive surge peak on state current	t <sub>p</sub> = 20 ms	50	A
dj/dt	Critical rate of rise of on-state current	Non-repetitive	100	A/μs
T <sub>stg</sub>	Storage and operating junction temperature range		-40 to 150	°C
T <sub>j</sub>			150	°C

**THERMAL RESISTANCES**

SYMBOL	PARAMETER		T10C	
			VALUE	UNIT
R <sub>th (j-i)</sub>	Junction-leads on infinite heatsink	L = 10 mm	60	°C/W

DEVICE TYPE	V <sub>RM</sub> (V)	I <sub>RM</sub> @ V <sub>RM</sub> (μA)	V <sub>BR</sub> MIN. @ 1 mA (V)	V <sub>BO</sub> MAX. (V)	V <sub>T</sub> TYP @ 1A (V)	I <sub>BO</sub> TYP (mA)	I <sub>H</sub> MIN. (mA)
T10C80	70	1	80	120	2	50	B or E
T10C110	100	1	110	135	2	50	B or E
T10C140	120	1	140	170	2	50	B or E
T10C180	170	1	180	210	4	50	B or E
T10C220	200	1	220	265	4	50	B or E
T10C270	240	1	270	360	4	50	B or E

**MINIMUM HOLDING CURRENTS I<sub>H</sub> MIN.**

Suffix	I <sub>H</sub>
B	120
E	180

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



# T10C Series

**3-terminal configuration,  
matches DT pin  
configuration. Plug in  
applications, fits in Krone™  
3-point connector  
block (5B).**

### 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

### 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

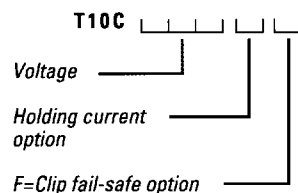
Fax: 1-619-715-7280

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.



FASTFAX Product Info: 1-888-267-9191

### Crydom

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