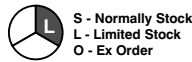


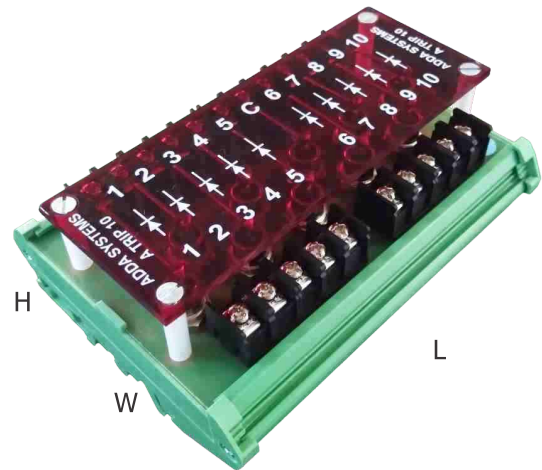
DIODE BOARDS ALARM & MODBUS SYSTEMS



CTSA DIODE BOARDS ALARM SYSTEMS



MODEL	DESCRIPTION	DIMENSIONS(LxWxH)
A-TRIP10	10 WAY CARD	(120x90x50)
A-TRIP8	8 WAY CARD	(120x90x50)
A-TRIP6	6 WAY CARD	(81x90x50)
A-TRIP5	5 WAY CARD	(70x90x50)
A-TRIP4	4 WAY CARD	(70x90x50)
A-TRIP3	3 WAY CARD	(50x90x50)
A-TRIP2	2 WAY CARD	(50x90x50)



A-TRIP10

We supply a range of CURRENT TRIP STEERING AVALANCHE DIODE boards rated at 25 Amp 1600V.

The boards are supplied in 10, 8, 6, 5, 4, 3 & 2 way Din rail boated units. The reason for using avalanche diodes is that during the opening and closing of large circuit breakers very high back EMF surges can be developed. If normal rectifiers were used for current steering they would work once and on application of the very high Back EMF the diodes could be destroyed preventing them from working correctly a second time.

Since the TRIPPING system is mainly a safety concern it is important that it always works correctly. To ensure this Avalanche Rectifiers are used which work as normal rectifier diodes up to the PIV (1600V) and for transient voltages above that the diode breaks down like a Zener Diode, passes the current and then heals back to its original state ready for its next use.

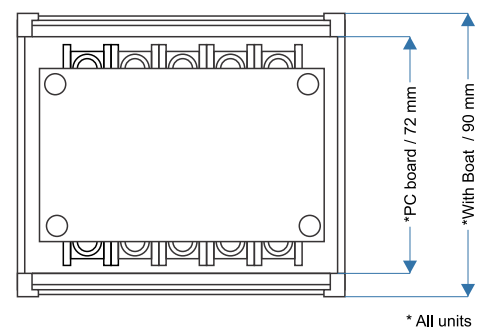
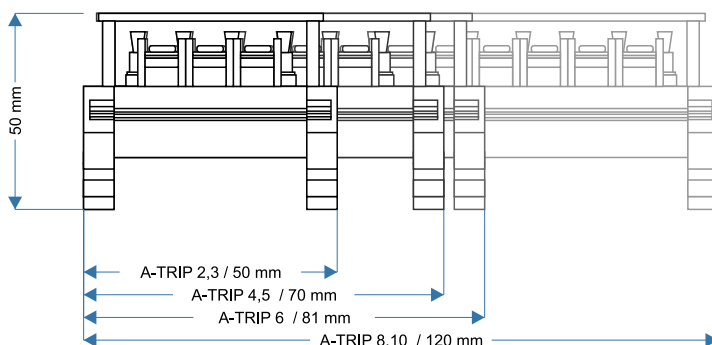
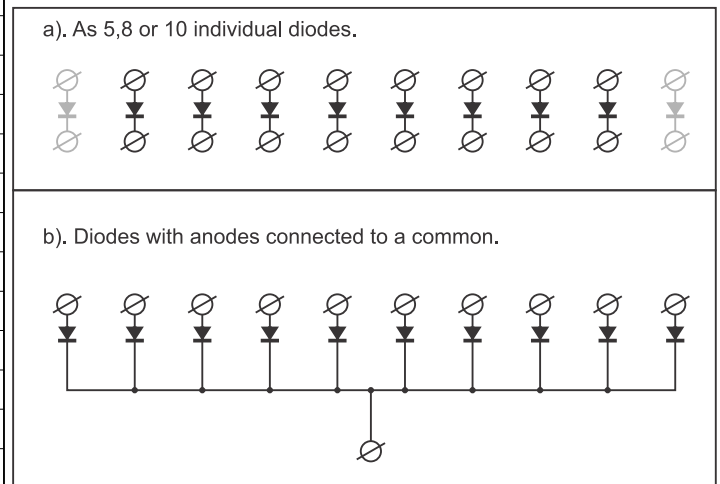
The diodes are specified at 25 Amps but as they are not on a heatsink they are only rated for intermittent use in this application.

For normal use the diode boards are supplied wired as discreet diodes but on special order they can be wired with the Anodes of all the diode on the board connected to a common terminal.

Specifications

Symbol	Ratings	Unit
V_{RRM}	1600	V
I_{RRM}	6	mA
$I_{F(AV)} (^{\circ}C)$	25 (120)	A
I_{FRMS}	39	A
$I_{FSM} (10ms)$	0.34	kA
I^2t	0.58	$A^2s \cdot 10^3$
V_{FM} / I_{FM}	1.35 / 78	V / A
$V_{T(TO)}$	0.90	V
PRSM 100mks	2.5	kW
T_{Jmax}	160	$^{\circ}C$
$R_{th(j-c)}$	1.100	$^{\circ}C / W$
M_d	0.9-1.1	Nm
w	0.006	kg

This is a 10 way diode board that can be supplied in 2 formats, for mounting on DIN Rail. Normally used for combining multiple TRIP signals to a single output to drive a Trip Relay.



ADDA SYSTEMS - AVALANCHE TRIP STEERING DIODE 3 ,5,6 & 10



Features

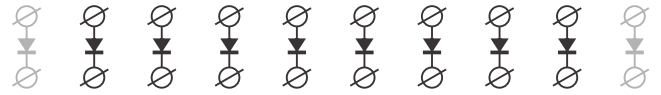
- 25 AMP DIODES
- 1600 VOLTS VRRM
- 0.34 kA Ifsm(10msec)
- I^2t - 580 A²s
- DIN Rail Mounting

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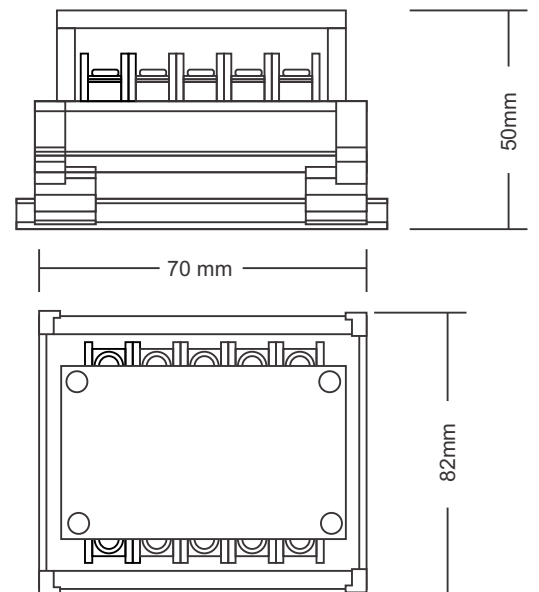
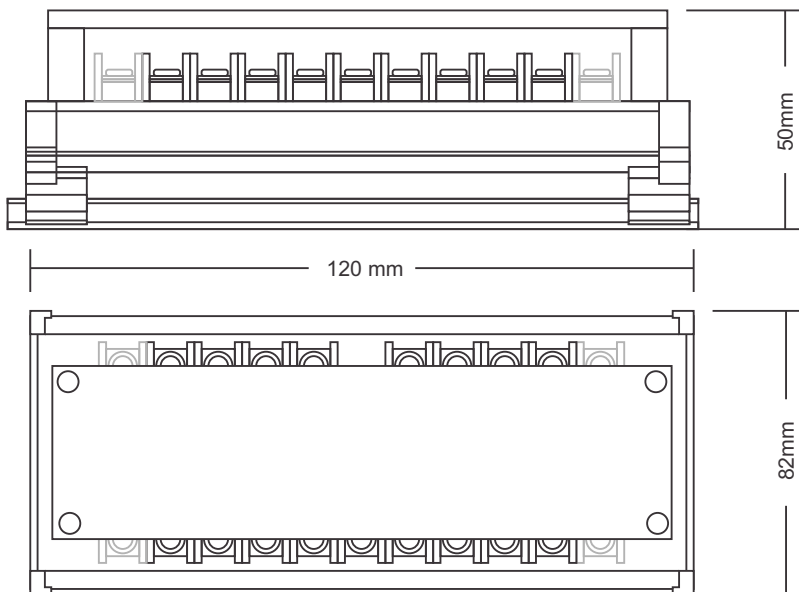
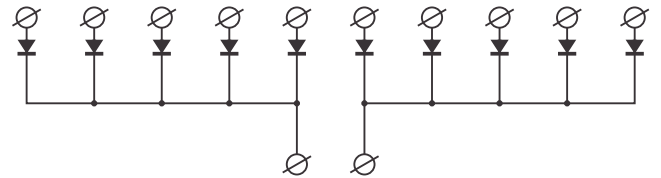
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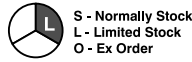
a). As 5,8 or 10 individual diodes.



b). As two groups of 5 diodes with anodes connected to a common.



INTERFACE PRODUCTS & PSU's



TRIP STEERING DIODE

ATRIP-3 (3 way)

ATRIP-5 (5 way)

ATRIP-8 (8 way)

ATRIP-10 (10 way)

Pictured is a 10 way diode board that can be supplied in 2 formats, for mounting on DIN Rail. Normally used for combining multiple TRIP signals to a single output to drive a Trip Relay.

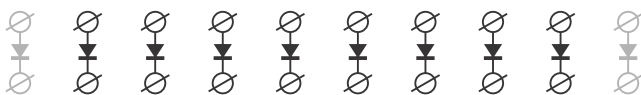
* 3 ,5,6 & 10 Way Board Options

- 25A Diodes
- 1600V VRRM
- 0,34 kA LFSM (10msec)
- I^2t - 580 A²s
- DIN Rail mounting

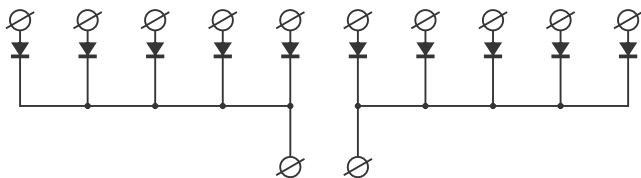


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b). As two groups of 5 diodes with anodes connected to a common.



JHB Branch

Mimic Components, Address: 5 Ramsay Street, Booyens, 2091, Johannesburg. Switchboard: +27(0)11-689-5700 | WhatsApp: 071-979-9999
PO Box 38493, Booyens, 2016, Johannesburg, South Africa. Email: info1@mimiccomponents.co.za | Website: www.mimiccomponents.co.za

Cape Branch

Mimic Cape. Address: Unit 41A, Stella Park, 57 Stella Road, Montague Gardens, 7441, Cape Town. Switchboard: +27(0)21-551-8185
WhatsApp: 071-979-9999. Po Box 36955, Chempet, 7442, Cape Town, South Africa. Email: info@mimic-cape.co.za | Website: www.mimic-cape.co.za