



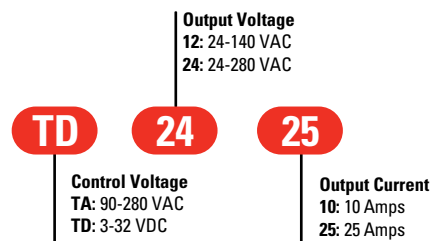
T Series

- Triac output SSRs; Output rated from 10A to 25A @ 24-240 VAC
- AC or DC control
- Zero-crossing (resistive loads) output

PRODUCT SELECTION

Control Voltage	10 A	25 A
3-32 VDC	TD1210	TD1225
90-280 VAC	TA1210	TA1225
3-32 VDC	TD2410	TD2425
90-280 VAC	TA2410	TA2425

AVAILABLE OPTIONS



● Required for valid part number

OUTPUT SPECIFICATIONS ⁽¹⁾

Description	10 A	25 A	10 A	25 A
Operating Voltage Range (47-63Hz) [Vrms]	24-140	24-140	24-280	24-280
Transient Overvoltage [Vpk]	400	400	600	600
Maximum Off-State Leakage Current @ Rated Voltage [mA _{rms}]	8	8	10	10
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] ⁽³⁾	200	200	200	200
Maximum Load Current [A _{rms}]	10	25	10	25
Minimum Load Current [A _{rms}]	40	40	40	40
Maximum Surge Non-Repetitive (16.6ms)[A _{pk}]	120	250	120	250
Maximum On-State Voltage Drop @ Rated Current [V _{pk}]	1.6	1.6	1.6	1.6
Maximum I ² t for Fusing (8.33 msec) [A ² sec]	1.48	1.02	1.48	1.02
Maximum Thermal Resistance Junction to Ceramic Base	60	260	60	260
Minimum Power Factor (with Maximum Load)	0.5	0.5	0.5	0.5

INPUT SPECIFICATIONS ⁽¹⁾

Description	TDxxxx	TAxxxx
Control Voltage Range	3-32 VDC	90-280 VAC
Minimum Turn-On Voltage	3.0 VDC	90 VAC
Minimum Turn-Off Voltage	1.0 VDC	10 VAC
Maximum Reverse Voltage	-32 VDC	-
Typical Input Current	3.4 mA @ 5 VDC, 20 mA @ 28 VDC	2 mA @ 120 Vrms, 4 mA @240 Vrms
Nominal Input Impedance	1500 Ohm	60 K Ohm
Maximum Turn-On Time [msec]	1/2 Cycle	10
Maximum Turn-Off Time [msec]	1/2 Cycle	40

GENERAL SPECIFICATIONS ⁽¹⁾

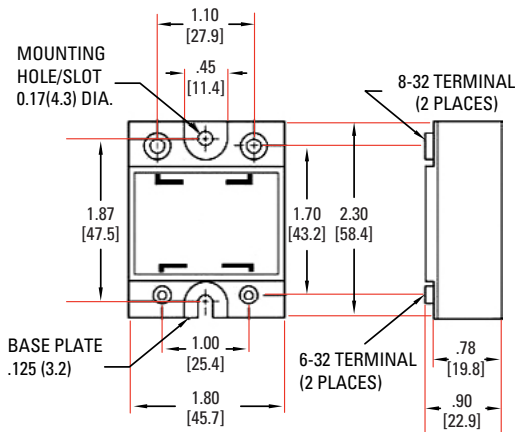
Description	Parameters
Dielectric Strength, Input/Output/Base (50/60Hz)	4000 Vrms
Minimum Insulation Resistance (@ 500 V DC)	10 ⁹ Ohm
Maximum Capacitance, Input/Output	8 pF
Ambient Operating Temperature Range	-40 to 80 °C
Ambient Storage Temperature Range	-40 to 125 °C
Weight (typical)	3.0 oz. (86.5 gr)
Encapsulation	Thermally Conductive Epoxy
Terminals	Screws and Saddle Clamps Furnished, Unmounted
Recommended Terminal Screw Torque Range:	6-32 Screws - 10 in lbs. 8-32 Screws - 20 in. lbs. (Screws dry without grase)

GENERAL NOTES

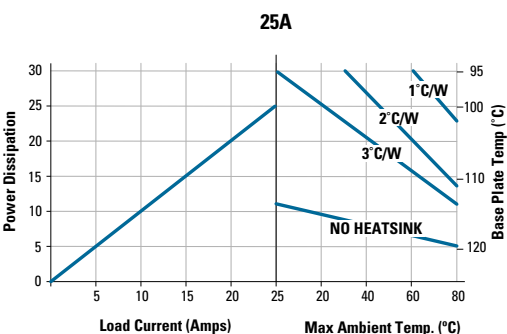
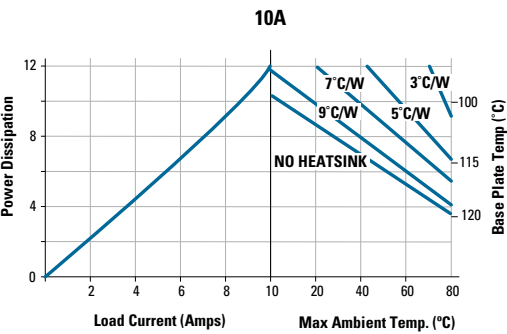
- (1) All parameters at 25°C and per section unless otherwise specified.
- (2) Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- (3) Heat sinking required, for derating curves see page 2

MECHANICAL SPECIFICATIONS

Tolerances: ±0.02 in / 0.5 mm
All dimensions are in: inches [millimeters]



THERMAL DERATE INFORMATION



AGENCY APPROVALS

Agency Approvals

UL E116949
CSA LR81689
VDE10143 UG

