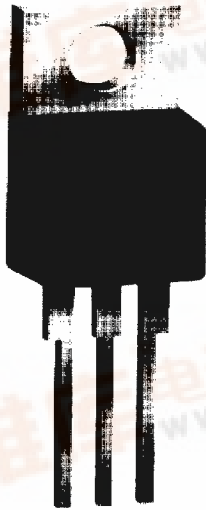


Selected Packages
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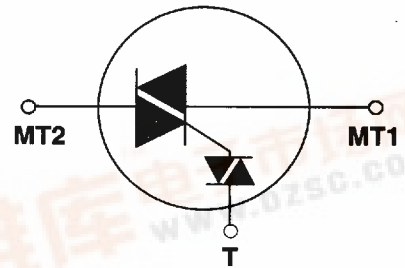


THERMOTAB
TO-220AB
(Isolated)



A SIEBE COMPANY

1801 HURD DRIVE
IRVING, TEXAS 75038-4385
PHONE 214/580-1515
FAX 214/550-1309



QUADRACs

INTERNALLY TRIGGERED TRIACS — (4-15 AMPS)

GENERAL DESCRIPTION

Teccor's QUADRAC is a triac that includes a diac trigger mounted inside the same package. This device, developed by Teccor, saves the user the expense and assembly time of buying a discrete diac and assembling in conjunction with a gated triac.

The QUADRAC® is a bidirectional AC switch and is gate controlled for either polarity of main terminal voltage. Its primary purpose is for AC switching and phase control applications such as speed controls, temperature modulation controls, and lighting controls.

Triac current capacities range from 4 to 15 Amperes with voltage ranges from 200-600 Volts. QUADRACs® are available in the TO-220AB package as shown above.

The Thermotab package is electrically isolated to 2,500 V (RMS) from the leads to mounting surface. 4,000 V (RMS) available on special order. This means that no external isolation is required, thus eliminating the need for separate insulators and insulator-mounting steps ... saving dollars over "hot tab" devices.

All Teccor triac and diac chips have glass-passivated junctions to ensure long term device reliability and parameter stability.

Variations of devices in this data sheet are available for custom design applications. Please consult the factory for more information.

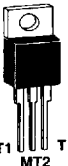
Features

- Glass-passivated junctions
- Electrically-isolated package
- Internal trigger diac
- High surge capacity — up to 200 amps
- High voltage capability — 200 up to 600 volts



Electrical Specifications

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$I_T(RMS)$	Part No.	V_{DRM}	I_{DRM}			V_{TM}	Trigger Diac Specifications (T-MT1)					
	Isolated						ΔV_{BO}	V_{BO}	$[\Delta V_{\pm}]$	I_{BO}	C_T	
RMS On-State Current Conduction Angle of 360° (5)	 THERMOTAB TO-220AB	Repetitive Peak Blocking Voltage (1) Volts	Peak Off-State Current Gate Open V_{DRM} = Max Rated Value (1) (10) mAmps $T_C = 25^{\circ}C$ $T_C = 100^{\circ}C$ $T_C = 125^{\circ}C$			Peak On-State Voltage at Max Rated RMS Current $T_C = 25^{\circ}C$ (1) (3) Volts	Breakover Voltage Symmetry (7) Volts	Breakover Voltage (Forward & Reverse) (6) Volts	Dynamic Breakback Voltage (Forward & Reverse) (6) Volts	Peak Breakover Current μ Amps	Trigger Firing Capacitance μ Farads	
For Package Dimensions & Variations, See Pg.101.		MIN	MAX			MAX	MAX	MIN	MAX	MIN	MAX	MAX
4.0 Amps	Q2004LT	200	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q4004LT	400	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q5004LT	500	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q6004LT	600	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
6.0 Amps	Q2006LT	200	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q4006LT	400	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q5006LT	500	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q6006LT	600	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
8.0 Amps	Q2008LT	200	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q4008LT	400	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q5008LT	500	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q6008LT	600	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
10.0 Amps	Q2010LT	200	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q4010LT	400	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q5010LT	500	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q6010LT	600	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
15.0 Amps	Q2015LT	200	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q4015LT	400	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q5015LT	500	.05	0.5	2.0	1.6	3	33	43	5	200	0.1
	Q6015LT	600	.05	0.5	2.0	1.6	3	33	43	5	200	0.1

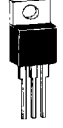
GENERAL NOTES

- All measurements are made at 60 Hz with resistive load at an ambient temperature of +25°C unless otherwise specified.
- Operating temperature range (T_J) is -40°C to +125°C.
- Storage temperature range (T_S) is -40°C to +125°C.
- Lead solder temperature is a maximum of +230°C for 10 seconds maximum; $\geq 1/16"$ (1.59mm) from case.
- The case temperature (T_C) is measured as shown on dimensional outline drawings. See "Package dimensions" section on Page 101.

ELECTRICAL ISOLATION

All Teccor isolated QUADRAC packages will withstand a minimum high potential test of 2500VAC (RMS) from leads to mounting tab over the operating temperature range of the device. See isolation table for standard and optional isolation ratings.

THERMAL RESISTANCE (STEADY STATE) $R_{\theta JC}$ [$R_{\theta JA}(TYP)$] °C/WATT	
TYPE	ISOLATED TO-220AB
4.0 amps	3.6 [50]
6.0 amps	3.3
8.0 amps	2.8
10.0 amps	2.6
15.0 amps	2.1

ELECTRICAL ISOLATION FROM LEADS TO MOUNTING TAB U.I. RECOGNIZED FILE #E71639	
TYPE	
VAC(RMS)	
2500	STANDARD
4000	OPTIONAL*

* FOR 4000 V ISOLATION USE "V" SUFFIX

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Electrical Specifications

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Figure 3A — On-State Current vs On-State Voltage (Typical)

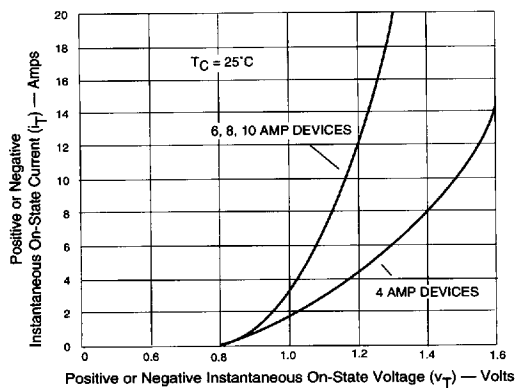


Figure 3B — On-State Current vs On-State Voltage (Typical)

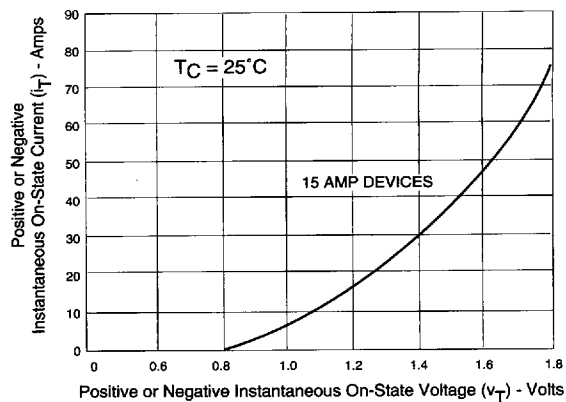


Figure 4 — Maximum Allowable Ambient Temperature vs. On-State Current

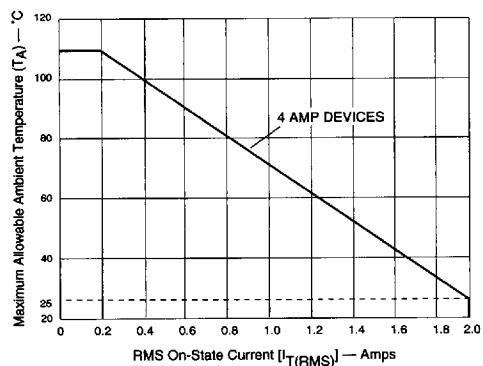
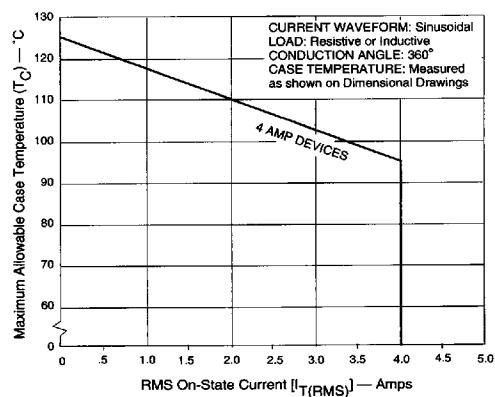


Figure 5A — Maximum Allowable Case Temperature vs. On-State Current



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Figure 5B — Maximum Allowable Case Temperature vs. On-State Current

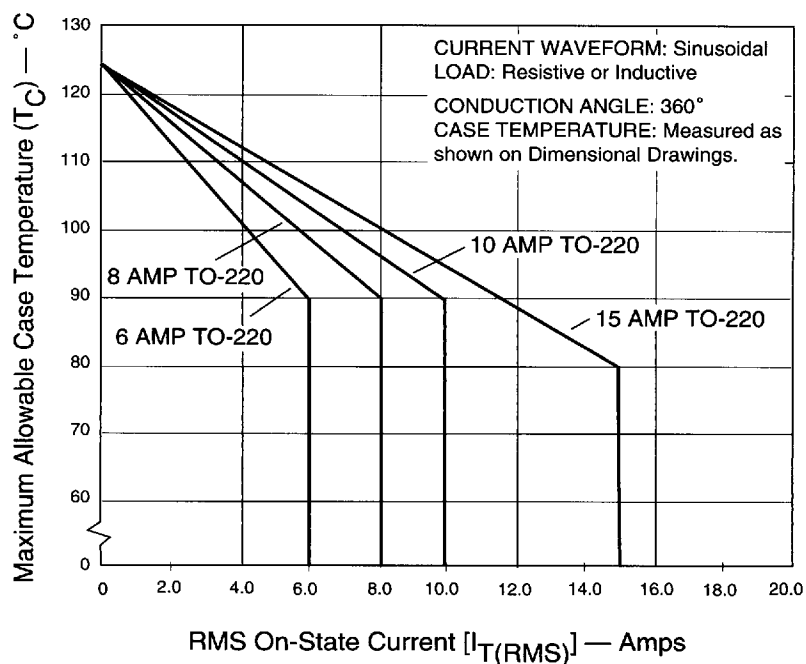
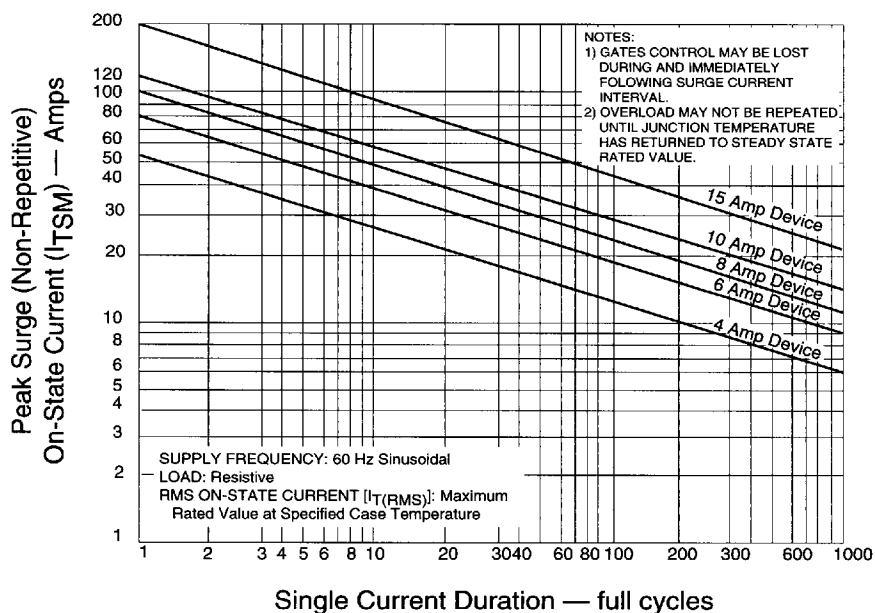


Figure 6 — Peak Surge Current vs. Surge Current Duration



Electrical Specifications

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Figure 7A — Power Dissipation (typical) vs On-state Current

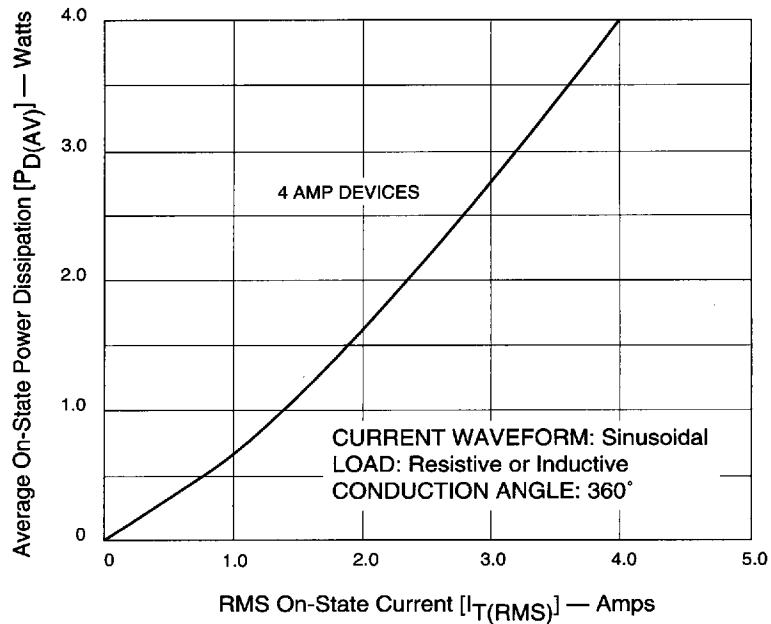


Figure 7B — Power Dissipation (Typical) vs. On-State Current

