BTA16/BTB16



TO-220

Triac Series

Absolute maximum ratings

Parameter	Symbol	Value	Unit	Test condition
peak repetitive off-stage voltage	V _{drm} , V _{rrm}	600	V	
on-state RMS current	I _T (RMS)	16	А	Tc <u><</u> 100 °C
NON repetitive surge peak on-state current	I _{TSM}	160	А	Tp=20ms, Tj=25 °C, F=50HZ
critical rate of rise on-state current	dl/dt	50	A/μs	
peak gate current	I _{GM}	4	А	
average gate power dissipation	P _G (AV)	1	W	
storage temperature range	Tstg	-40 to +150	°C	
operating junction temperature range	Tj	125	°C	

Electrical characteristics (Tj=25°C) unless otherwise specified

Parameter	Symbol	Value	Unit	Test condition
gate trigger current	I _{GT}	<u><</u> 50	mA	T2+G+ V _D =12V, I _T =0.1A
		<u><</u> 50	mA	T2+G- V _D =12V, I _T =0.1A
		<u><</u> 50	mA	T2-G- V _D =12V, I _T =0.1A
		<u><</u> 100	mA	T2-G+ V _D =12V, I _T =0.1A
gate trigger voltage	V _{GT}	<u><</u> 1.30	V	V _D =12V, I _T =0.1A
hold current	I _H	<u><</u> 50	mA	I _T =0.5A
critical rate of rise off-state voltage	dv/dt	<u>></u> 200	V/µs	V _D =67%V _{DRM}
on-state voltage	V _{TM}	<u><</u> 1.55	V	I _T =22.5A, t _p =380μs
off-state leakage current	I _{DRM}	<u><</u> 2.00	mA	V _D =V _{DRM} ; V _R =V _{RRM} ; Tj=125⁰C
	Rth(j-a)	60		
thermal resistance	Rth(j-c) AC	<u><</u> 2.10	°C/W	BTA Insulated
	Rth(j-c) AC	<u><</u> 1.20		BTB Uninsulated

Disclaimer

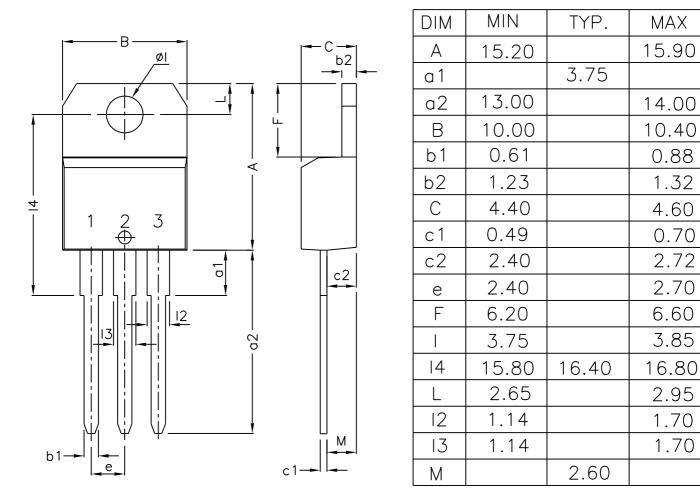
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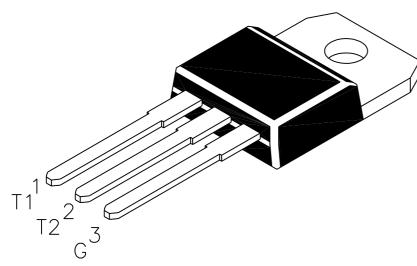


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PACKAGE TO-220 AB



ALL DIMENSIONS ARE IN mm



PIN CONFIGURATION:-

- 1. MAIN TERMINAL 1
- 2. MAIN TERMINAL 2
- 3. GATE