

BTA/BTB06 Series

SNUBBERLESS™, LOGIC LEVEL & STANDARD

6A TRIACs

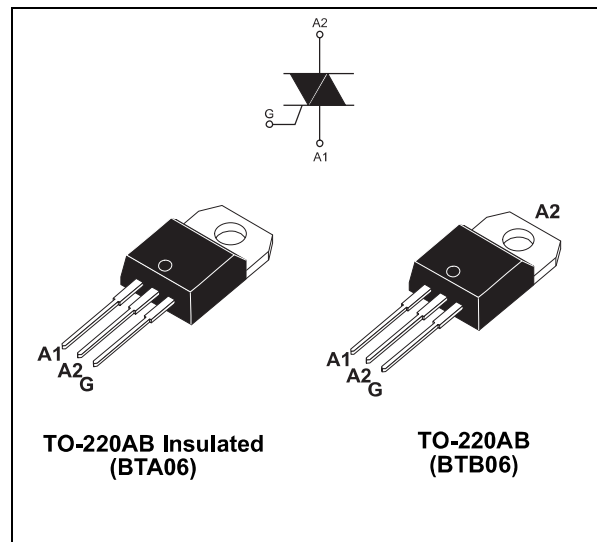
MAIN FEATURES:

Symbol	Value	Unit
$I_{T(RMS)}$	6	A
V_{DRM}/V_{RRM}	600 and 800	V
$I_G(Q_1)$	5 to 50	mA

DESCRIPTION

Suitable for AC switching operations, the BTA/BTB06 series can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits... or for phase control in light dimmers, motor speed controllers,...

The snubberless and logic level versions (BTA/BTB...W) are specially recommended for use on inductive loads, thanks to their high commutation performances. By using an internal ceramic pad, the BTA series provides voltage insulated tab (rated at 2500V RMS) complying with UL standards (File ref.: E81734)



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
$I_{T(RMS)}$	RMS on-state current (full sine wave)	TO-220AB Tc = 110°C	6 A
		TO-220AB Ins. Tc = 105°C	
I_{TSM}	Non repetitive surge peak on-state current (full cycle, Tj initial = 25°C)	F = 50 Hz t = 20 ms	60 A
		F = 60 Hz t = 16.7 ms	
I^2t	I^2t Value for fusing	tp = 10 ms	21 A ² s
dI/dt	Critical rate of rise of on-state current I _G = 2 x I _{GT} , tr ≤ 100 ns	F = 120 Hz Tj = 125°C	50 A/μs
I _{GM}	Peak gate current	tp = 20 μs Tj = 125°C	4 A
P _{G(AV)}	Average gate power dissipation	Tj = 125°C	1 W
T _{stg} T _j	Storage junction temperature range Operating junction temperature range		- 40 to + 150 - 40 to + 125 °C