



SU FUTURO EN TECNOLOGIA

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Carlos Erazo
Gerente General



BTA/BTB10 Series

SNUBBERLESS™ & STANDARD

10A TRIACs

MAIN FEATURES:

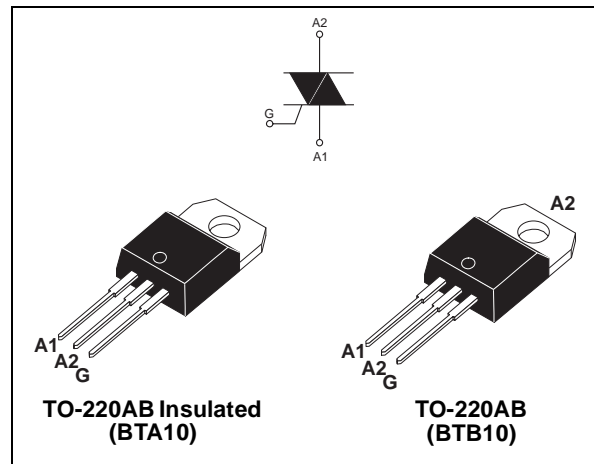
Symbol	Value	Unit
$I_{T(RMS)}$	10	A
V_{DRM}/V_{RRM}	600 and 800	V
$I_{GT}(Q_1)$	25 to 50	mA

DESCRIPTION

Available either in standard or snubberless version, the BTA/BTB10 triac series is suitable for general purpose AC switching. They can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits... or for phase control operation in light dimmers, motor speed controllers, ...

The snubberless version (W suffix) is 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 2500 V RMS) complying with UL standards (File ref.: E81734).

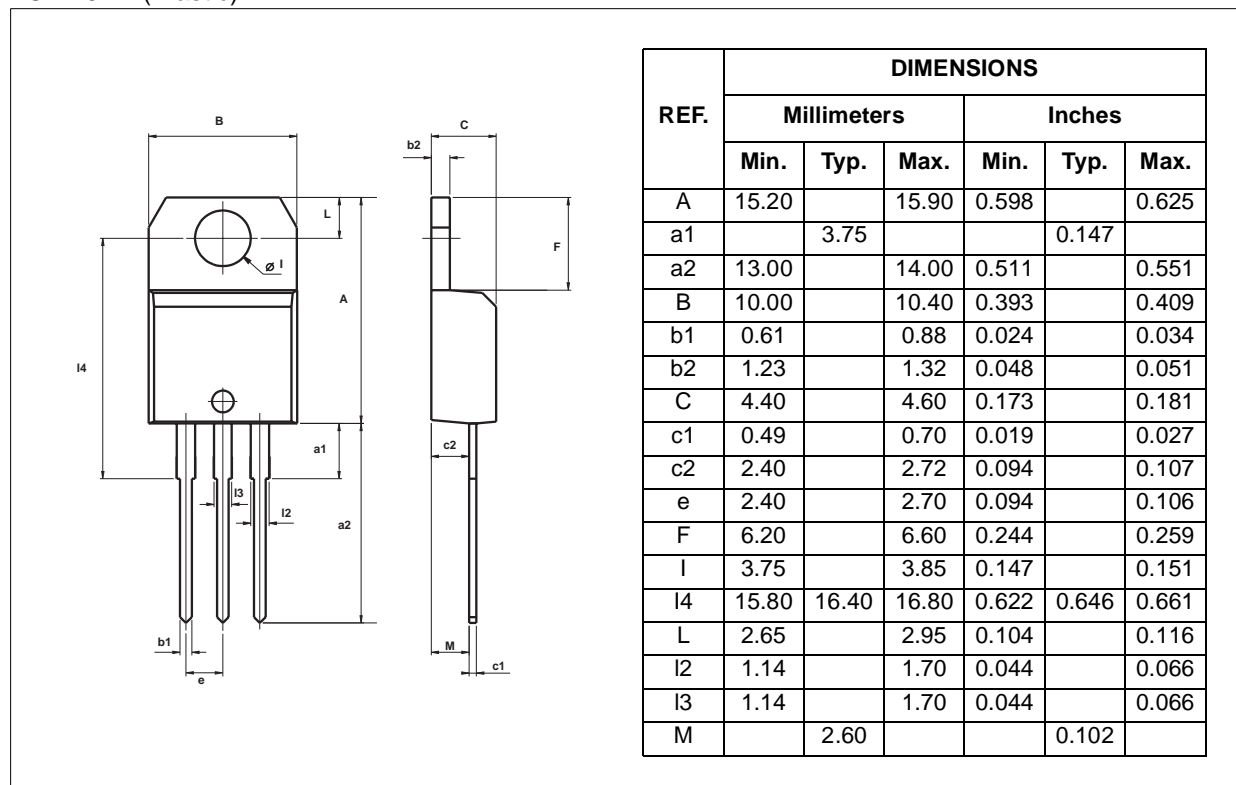


ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit	
$I_{T(RMS)}$	RMS on-state current (full sine wave)	TO-220AB	10	A
		TO-220AB Ins.		
I_{TSM}	Non repetitive surge peak on-state current (full cycle, T_j initial = 25°C)	F = 60 Hz	105	A
		F = 50 Hz	100	
I^2t	I^2t Value for fusing	tp = 10 ms	55	A ² s
di/dt	Critical rate of rise of on-state current $I_G = 2 \times I_{GT}$, $t_r \leq 100$ ns	F = 120 Hz	50	A/ μ s
V_{DSM}/V_{RSM}	Non repetitive surge peak off-state voltage	tp = 10 ms	$V_{DRM}/V_{RRM} + 100$	V
I_{GM}	Peak gate current	tp = 20 μ s	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

PACKAGE MECHANICAL DATA

TO-220AB (Plastic)



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