

TIGER ELECTRONIC CO.,LTD

Product specification

BTA/BTB12-700C

12A TRIACS

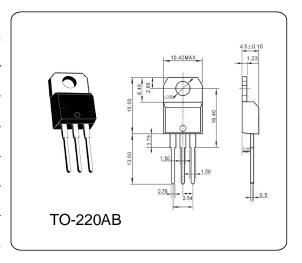
GENERAL DESCRIPTION

Available either in through-hole or surface-mount packages, the BTA/BTB12 - 700C 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 versions (BTA/BTB...W series) 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.

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

PARAMETER	Symbol	Value	Unit
Repetitive peak off-state voltages	V_{DRM}	700	V
peak off-state reverse voltages	V_{RRM}	700	V
RMS on-state current	I _T	12.0	Α
Non-repetitive peak on-state current	I _{TSM}	120	Α
Max. Operating Junction Temperature	T _j	110	°C
Storage Temperature	T _{stg}	-45~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

PARAMETER		Symbol	Test Conditions	Min.	Max	Unit
Repetitive peak off-state voltages		V_{DRM}	I _D =0.1mA	700		V
Repetitive peak current	off-state	I _{DRM}	V _{DRM} =620V		10	uA
On-state voltage	9	V_{TM}	I _T =17A		1.55	V
Holding current		I _H	I _T =0.5A,I _{GT} =20mA		25	mA
Gate trigger Current	T2+G+	- I _{GT}	V _{AK} =12V R _L =30		25	- mA
	T2+G-				25	
	T2-G-				25	
	T2-G+				50	
Gate trigger Voltage	T2+G+	V _{GT}	V _D =12V R _L =30		1.3	- V
	T2+G-				1.3	
	T2-G-				1.3	
	T2-G+				1.3	