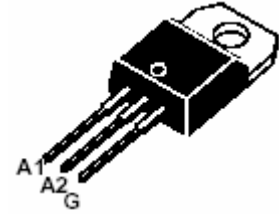


BTA12-600B

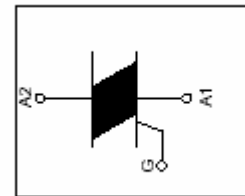
◆ Features

- With TO-220AB Insulated package
- Suitable for general purpose AC switching, which 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, etc.



◆ QUICK REFERENCE DATA

SYMBOL	PARAMETER	VALUE	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak off-state voltage	600	V
$I_{T(AV)}$	Average on-state current	12	A
I_{TSM}	Non-repetitive peak on-state current	120	A
T_{stg}	Storage temperature	-45 ~ 150	
T_j	Operating junction temperature	110	
			TO-220AB



◆ ELECTRICAL CHARACTERISTICS ($T_j = 25^\circ\text{C}$, unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage	$I_D=0.1\text{mA}$	600		V
V_{RRM}	Repetitive peak reverse voltage	$I_D=0.5\text{mA}$	600		V
I_{GT}	Gate trigger current	$V_D=12\text{V}; R_L=100$ T2+ G+		25	mA
		T2+ G-		50	
		T2- G-		50	
		T2- G+		100	
V_T	On-state voltage	$I_T=17\text{A}$		1.55	V
I_H	Holding current	$I_T=0.1\text{A}; I_{GT}=20\text{mA}$		15	mA
V_{GT}	Gate trigger voltage	$V_D=12\text{V}; R_L=100$ T2+ G+		1.5	V
		T2+ G-		1.5	
		T2- G-		1.5	
		T2- G+		1.8	