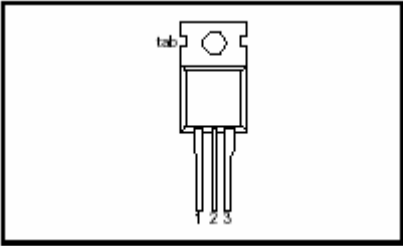


BT138-600

◆ Features

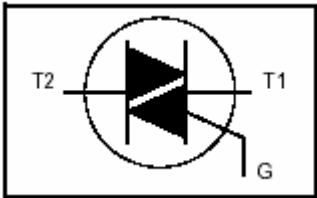
- With TO-220AB package
- Glass passivated triacs in a plastic envelope, intended for use in applications requiring high bidirectional transient and blocking voltage capability and high thermal cycling performance. Typical applications include motor control, industrial and domestic lighting, heating and static switching.



PIN	DESCRIPTION
1	main terminal 1
2	main terminal 2
3	gate
tab	main terminal 2

◆ 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	95	A		
T_{stg}	Storage temperature	-45~150	°C		
T_j	Operating junction temperature	110	°C		TO-220AB



◆ ELECTRICAL CHARACTERISTICS (Tj = 25°C, unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage	$I_D=0.1mA$	600		V
V_{RRM}	Repetitive peak reverse voltage	$I_D=0.5mA$	600		V
I_{GT}	Gate trigger current	$V_D=12V; R_L=100\Omega$ T2+ G+		30	mA
		T2+ G-		30	
		T2- G-		30	
		T2- G+		100	
V_T	On-state voltage	$I_T=15A$		1.7	V
I_H	Holding current	$I_T=0.2A; I_{GT}=50mA$		50	mA
V_{GT}	Gate trigger voltage	$V_D=12V; R_L=100\Omega$ T2+ G+		1.5	V
		T2+ G-		1.5	
		T2- G-		1.5	
		T2- G+		1.8	