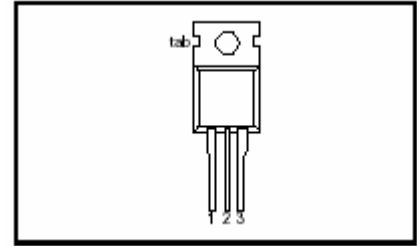


BT137-600E

◆ Features

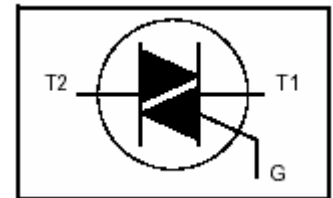
- With TO-220AB package
- Glass passivated, sensitive gate triacs in a plastic envelope, intended for use in general purpose bidirectional switching and phase control applications, where high sensitivity is required in all four quadrants.



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	8	A		
I_{TSM}	Non-repetitive peak on-state current	65	A		
P_{GM}	Peak gate power	5	W		
$P_{G(AV)}$	Average gate power	0.5	W		
T_{stg}	Storage temperature	-45~150	°C		
T_j	Operating junction temperature	110	°C		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	$V_D=12\text{V}; R_L=100\ \Omega$ T2+ G+		10	mA
		T2+ G-		10	
		T2- G-		10	
		T2- G+		25	
V_T	On-state voltage	$I_T=10\text{A}$		1.65	V
I_H	Holding current	$I_T=0.2\text{A}; I_{GT}=50\text{mA}$		50	mA
V_{GT}	Gate trigger voltage	$V_D=12\text{V}; R_L=100\ \Omega$ T2+ G+		1.5	V
		T2+ G-		1.5	
		T2- G-		1.5	
		T2- G+		1.8	