

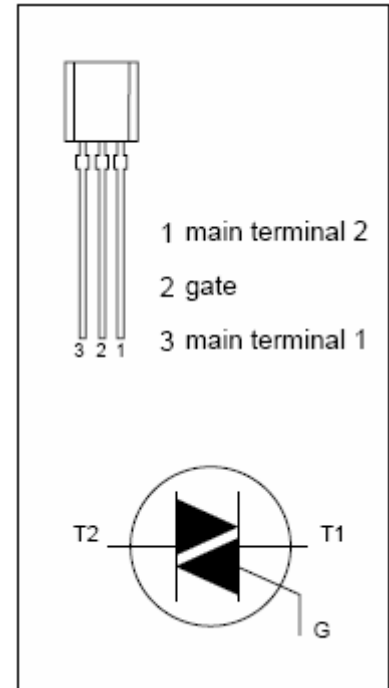
# BT131-600

### ◆ Features

- With TO-92 package
- For use in general purpose bidirectional switching and phase control applications, which is intended to be interfaced directly to microcontrollers, logic integrated circuits and other low power gate trigger circuits.

### ◆ 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	1	A	
$I_{TSM}$	Non-repetitive peak on-state current	16	A	
$P_{G(AV)}$	Average gate power	0.5	W	
$T_{stg}$	Storage temperature	-40~150	°C	
$T_j$	Operating junction temperature	125	°C	TO-92



### ◆ 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	$V_D=12\text{V}; I_T=0.1\text{A}$ T2+ G+		3	mA
		T2+ G-		3	
		T2- G-		3	
		T2- G+		7	
$V_T$	On-state voltage	$I_T=2\text{A}$		1.5	V
$I_H$	Holding current	$V_D=12\text{V}; I_{GT}=0.1\text{A}$		5	mA
$V_{GT}$	Gate trigger voltage	$V_D=12\text{V}; I_T=0.1\text{A}$ T2+ G+		1.5	V
		T2+ G-		1.5	
		T2- G-		1.5	
		T2- G+		1.5	