

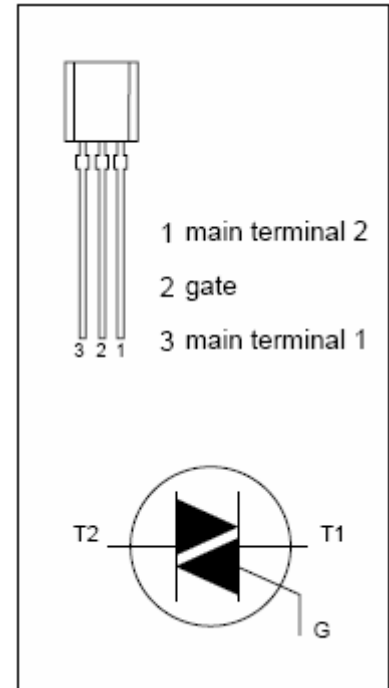
BT131-600

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