

BT131-800D 1A TRIAC

Rev.A.1.1

DESCRIPTION:

The BT131-800D triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. Package SOT-89-2L is RoHS compliant.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-125	
Repetitive peak off-state voltage ($T_j=25$)	V_{DRM}	800	V

ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I _{GT}	V _D =12V R _L =33	- -	MAX.	5	mA
				10	
V _{GT}		ALL	MAX.	1.3	V
V _{GD}	V _D =V _{DRM} T _j =125 R _L =3.3k	ALL	MIN.	0.2	V

I_L I_G=1 YR Žñ B •TÛÂ!œ !1 •Ò

MARKING

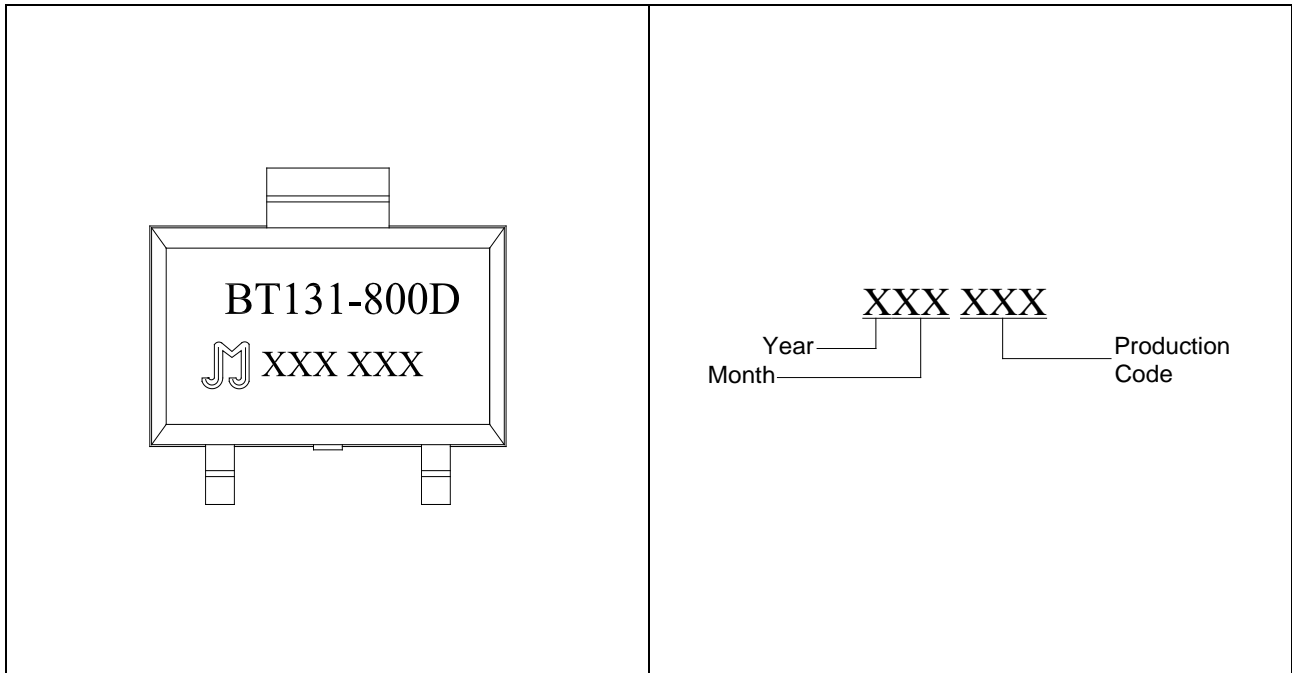


FIG.1: Maximum power dissipation versus RMS on-state current



FIG.2: RMS on-state current versus case temperature

FIG.3: RMS on-state current versus ambient temperature (printed circuit board FR4, copper thickness: P (full cycle)

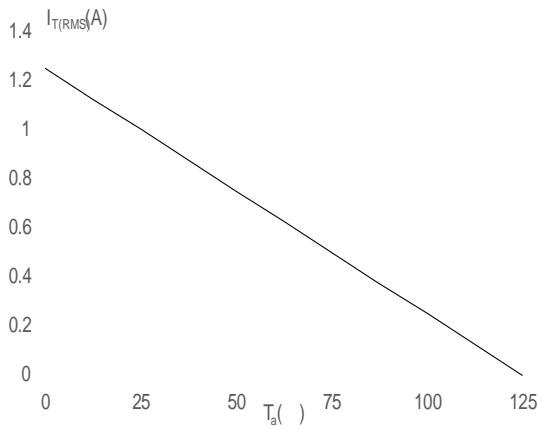


FIG.5: On-state characteristics



FIG.4: Surge peak on-state current versus number of cycles

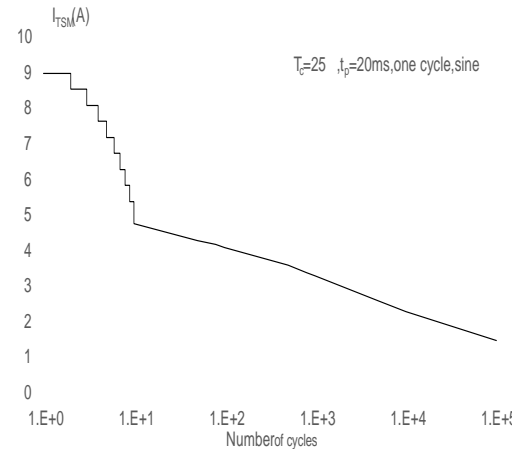
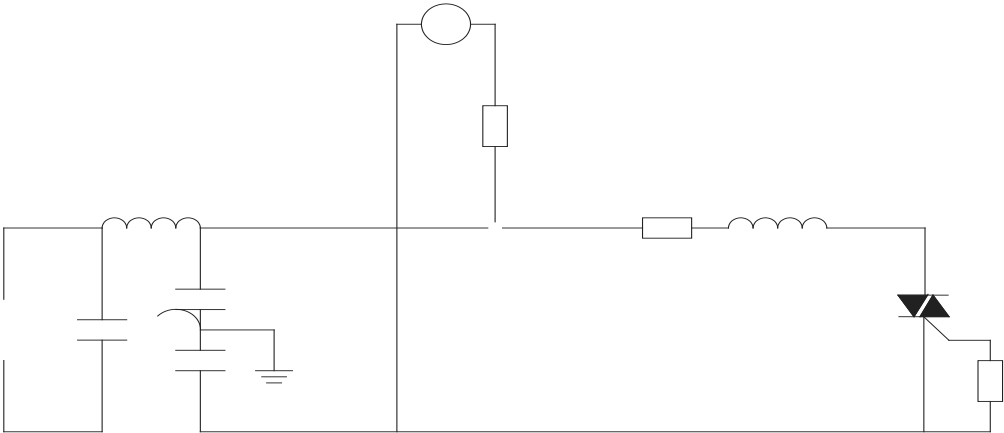


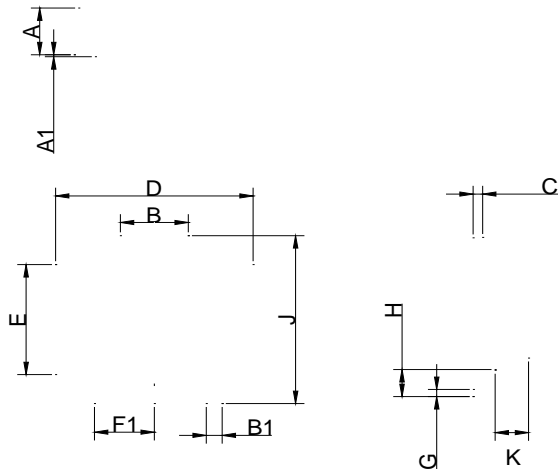
FIG.6: Non-repetitive surge peak on-state current for a sinusoidal pulse with width $t_p < 20ms$, and corresponding value of I^2t (- : $dI/dt < 50 A/\mu s$ V- : $dI/dt < 30 A/\mu s$)V

FIG.8 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards





PACKAGE MECHANICAL DATA



DELIVERY MODE

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
E	1.65	1.75	1.85			
F	5.45	5.50	5.55			
P2	1.90	2.00	2.10			
D	-	1.50	1.60			
D1	1.50					
P0	3.90	4.00	4.10			
-	10P0	39.80	40.00	40.20		
	W					
	P					
	A0					
	B0					
	K0					
	t					

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