

1 Description

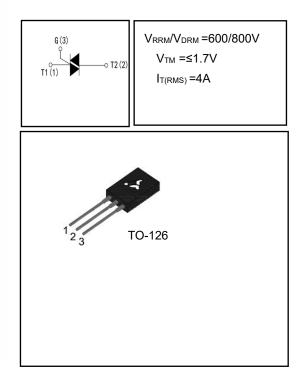
BT134 series triacs with low holding and latchingcurrent are especially recommended for use onmiddle and small resistance type power load.

2 Features

- High current output up to 4A
- Low Peak on-state voltage drop
- High voltage
- High reliability

3 Applications

- jet pumps of dishwashers
- fans of air-conditioner
- power charger
- AC Motor control



4 Electrical Characteristics

4.1 Absolute Maximum Ratings (Tc=25°C, unless otherwise noted)

0				
PARAMETER	SYMBOL	VALUE	UNIT	
Repetitive peak off-state voltage (Tj=25℃)		V _{DRM}	600/800	V
Repetitive peak reverse voltage (Tj=25°C)		V _{RRM}	600/800	V
Non repetitive surge peak Off-state voltage		V _{DSM}	+ 100	V
Non repetitive peak reverse voltage		V _{RSM}	+ 100	V
RMS on-state current	Tc=105℃	I _{T(RMS)}	4	A
	tp=8.3ms		27	
Non repetitive surge peak on-state current	tp=10ms	Ітѕм	25	A
I ² t value for fusing (tp=10ms)		l ² t	3.1	A
Repetitive rate of rise of on-state current	I - II -III	d _{IT/dt}	50	
IG=(2XIGT)	IV		10	A/us
Peak gate current	•	I _{GM}	1	A
Peak gate power		P _{GM}	5	W
Average gate power dissipation		P _{G(AV)}	0.5	W
Operating junction temperature range		TJ	- 40 ~ 125	°C
Storage junction temperature range		T _{STG}	- 40 ~ 150	°C

4.2 Thermal Characteristics

PARAMETER	SYMBOL	VALUE	UNIT	
Thermal Resistance, Junction to Case-sink	R _{thJC}	4.1	°C /W	



BT134

4.3 Electrical Characteristics (Tc=25°C, unless otherwise noted)							
SYMBOL	PARAMETER	Test Conditions		Min	Тур	Max	Unit
			I - II -III	-	-	10	
I _{GT}	Triggering gate current	V _D =12V R _L =33Ω	IV	-	-	25	mA
V _{GT}	Triggering gate voltage	ALL		-	0.77	1.5	V
Vgd	Non-triggering gate voltage	V _D =V _{DRM} T _j =125 °C R _L =3.3KΩ		0.2	-	-	V
			I -III-II	-	-	20	
۱L	Latching Current	Ig=1.2IgT	IV	-	-	35	mA
IH	Holding Current	I _T =100mA		-	-	15	mA
d _{V/dt}	Critical Rate of Rise of Off-state Voltage	V _D =2/3V _{DRM} Gate Open Tj=125℃		50	-	-	V/us
V _{TM}	Peak Forward On-State Voltage	I _{TM} =4A tp=380us		-	-	1.7	V
I _{DRM}	Maximum forward or reverse leakage current		Tj=25 ℃	-	-	10	uA
I _{RRM}	Maximum reverse leakage current	V _D =V _{DRM} V _R =V _{RRM}	Tj=125℃	-	-	1	mA

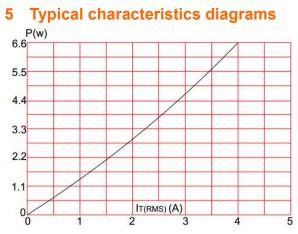


FIG.1: Maximum power dissipation versus RMS on-state current

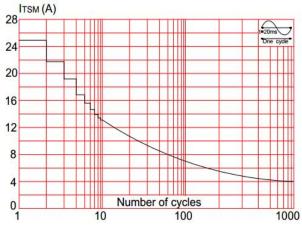


FIG.3: Surge peak on-state current versus number of cycles

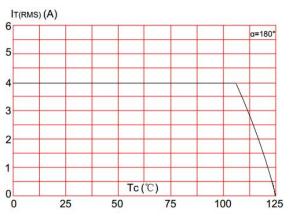
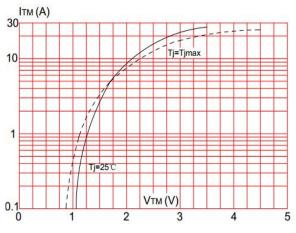


FIG.2: RMS on-state current versus case temperature





Jiangsu Donghai Semiconductor Technology Co., Ltd.



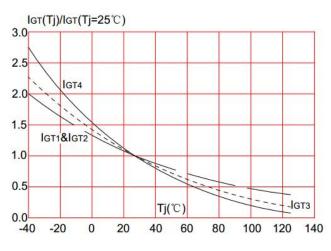
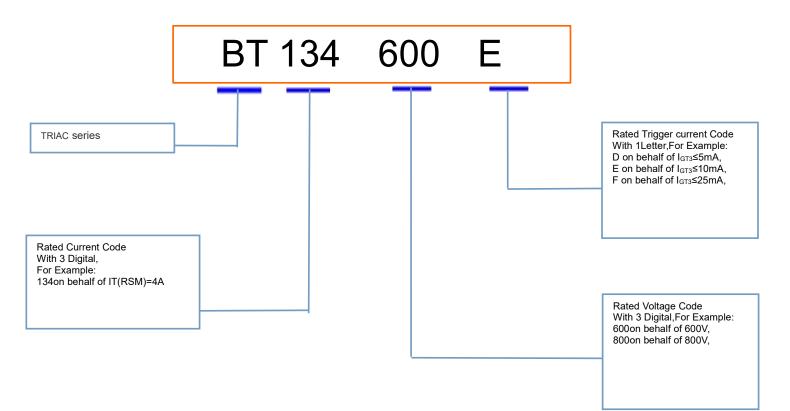


FIG.5: Relative variations of gate trigger current, holding current and latching current versus junction temperature

6 Product Names Rules

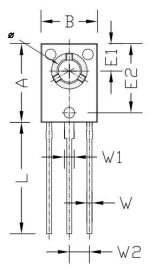


7 Product Specifications and Packaging Models

Product Model	Package Type	Mark Name	RoHS	Package	Quantity
BT134	TO-126	BT134	Pb-free	bag	3000//box



TO-126 PACKAGE OUTLINE DIMENSIONS



	С	-	-		
				3	
-			D		
_ _	 - -	-	۰E	13 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Symbol	Dimensions Ir	n Millimeters	Dimensions	In Inches
Symbol	min.	max.	min.	max.
А	10.50	11.10	0.413	0.437
В	7.65	7.95	0.301	0.313
С	2.50	2.80	0.098	0.110
D	1.45	1.75	0.057	0.069
Е	0.40	0.60	0.016	0.024
E1	3.65	3.85	0.144	0.152
E2	9.40	9.60	0.370	0.378
L	15.4	15.9	0.606	0.626
W	0.60	0.80	0.024	0.031
W1	1.20	1.30	0.047	0.051
W2	2. 32	2 TYP	0. 091	TYP
Φ	3.05	3.35	0.120	0.132

9 Attentions

- Jiangsu Donghai Semiconductor Technology Co., Ltd. reserves the right to change the specification without prior notice! The customer should obtain the latest version of the information before making the order and verify that the information is complete and up to date.
- It is the responsibility of the purchaser for any failure or failure of any semiconductor product under certain conditions. It is the responsibility of the purchaser to comply with safety standards and to take safety measures in the system design and machine manufacturing of WXDH products in order to avoid potential risk of failure. Injury or property damage.
- Product promotion is endless, our company will be dedicated to provide customers with better products.

10 Appendix

Revision history:

Date	REV.	Description	Page
2017.09.21	1.0	Original	