

### **Features**

Glass passivated triacs in a plastic intended for use in applications requiring high bidirectional transient and blocking voltage capabilit and high thermal cycling performance. Typical applications include motor control, industrial and domestic lighting, heating and static switching.



TO-92

### **Package Marking and Ordering Information**

Product ID	Pack	Packing Method	Qty(PCS)
BT134-800	TO-92	Tape and Reel	200



## Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Value	Unit	
V <sub>DRM</sub> /V <sub>RRM</sub>	repetitive peak off-state voltage		800	٧	
I <sub>T(RMS)</sub>	RMS on-state current		2	Α	
	Non repetitive surge peak	t = 2ms T <sub>j</sub> = 25°C	20		
I <sub>TSM</sub>	on-state current	t = 16.7ms T <sub>j</sub> =25°C	16	Α	
l <sup>2</sup> t	I <sup>2</sup> t for fusing	t = 10 ms	2	A <sup>2</sup> s	
dl/dt	Critical-rate of rise of I II III commutation current IV	I <sub>G</sub> =2I <sub>GT</sub> tr≤100ns F=120Hz	50 10	A/us	
I <sub>GM</sub>	Peak Gate Current	T <sub>j</sub> =125°C tp=20µs	0.6	Α	
V <sub>GM</sub>	Peak gate voltage	T <sub>j</sub> =125 °C	1	V	
P <sub>GM</sub>	Peak gate power	T <sub>j</sub> =125 °C	1	W	
P <sub>G(AV)</sub>	Average Gate Power Dissipation	T <sub>j</sub> =125 °C	0.5	W	
Tj	Junction Temperature	-	-40 ~ 125	°C	
T <sub>stg</sub>	Storage Temperature	-	-40 ~ 150	°C	

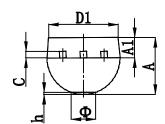


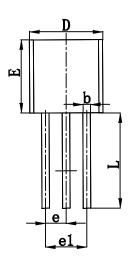
# Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter		Symbol	Test cond	itions	Min	Тур	Max	Unit
Repetitive Peak Off-State Current Repetitive Peak Reverse Current		I <sub>DRM,</sub> I <sub>RRM</sub>	V <sub>DRM</sub> =V <sub>RRM</sub> T <sub>j</sub> =25°C				5	μΑ
			$V_{DRM} = V_{RRM} T_j = 125 ^{\circ}C$				1	mA
Gate non-trigger voltage		$V_{\sf GD}$	V <sub>D</sub> = 1/2V <sub>DRM</sub>		0.2			V
On-state voltage		$V_{TM}$	I <sub>T</sub> =2A,t <sub>p</sub> =380us				1.65	V
	I	I <sub>GT</sub>	T <sub>2</sub> (+), G(+)	V <sub>D</sub> =12V R <sub>L</sub> =100Ω			3	mA
Gate trigger current	Ш		T <sub>2</sub> (+), G(-)				6	
Gate trigger current	III		T <sub>2</sub> (-), G(-)				4	
	IV		T <sub>2</sub> (-), G(+)				10	
	I	$V_{GT}$	T <sub>2</sub> (+), G(+)			0.8	2	
Gate trigger voltage	Ш		T <sub>2</sub> (+), G(-)	V <sub>D</sub> =12V		8.0	2	V
	III		T <sub>2</sub> (-), G(-)	R <sub>L</sub> =100Ω	!	8.0	2	
	IV		T <sub>2</sub> (-), G(+)			8.0	2.5	
Holding current		lμ	V <sub>D</sub> =12V,I <sub>GT</sub> =100mA				30	mA
Critical-rate of rise of commutation voltage		dV/dt	V <sub>DM</sub> =67%V <sub>DRM</sub>				50	V/us
			Gate open T	<sub>j</sub> =125 °C				
Rate of change of commutating voltage		(dl/dt)c	V <sub>DM</sub> =400V T <sub>j</sub> =125 °C				20	V/us
			(dl/dt)c=5.4A/ms Gate open					
Turn-on time		t <sub>gt</sub>	I <sub>TM</sub> =16A ,V <sub>DM</sub> =V <sub>DRM(MAX)</sub> I <sub>G</sub> =0.1A,dI <sub>G</sub> dt=5A/uS				2	us



## **TO-92 Package Outline Dimensions**





Symbol	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
А	3.300	3.700	0.130	0.146	
A1	1.100	1.400	0.043	0.055	
b	0.380	0.550	0.015	0.022	
С	0.360	0.510	0.014	0.020	
D	4.300	4.700	0.169	0.185	
D1	3.430		0.135		
Е	4.300	4.700	0.169	0.185	
е	1.270 TYP		0.050 TYP		
e1	2.440	2.640	0.096	0.104	
L	14.100	14.500	0.555	0.571	
Ф		1.600		0.063	
h	0.000	0.380	0.000	0.015	



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