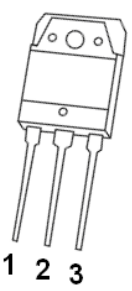
南京集正电子有限公司
NanJing JiZheng Electronics Co.,Ltd

BTA26

26A TRIACS

DRAWING

TO – 3P



(Insulated)

Description

- Package: TO-3P
- High current density due to double mesa technology, SIPOS and Glass passivation . BTA26 series triacs is suitable for general purpose AC switching. They can be used as an ON/OFF function is applications such as static relays, heating regulation, induction motor stating circuits or phase control operation light dimmers, motor speed controllers.
- BTA26 series are 3 Quadrants triacs, They are specially recommended for use on inductive loads.

Absolute Maximum Ratings

Parameter		Symbol	Value	Unit
Storage junction temperature range		Tstg	-40 to +150	℃
Operating junction temperature range		Tj	-40 to + 125	℃
Repetitive Peak OFF-state Voltage	Tj=25℃	V_{DRM}	600 and 800	V
Repetitive Peak Reverse Voltage	Tj=25℃	V_{RRM}	600 and 800	V
Non repetitive surge peak off-state voltage	Tp=10ms,Tj=25℃	V_{DSM}	700 and 900	V
Non repetitive peak reverse voltage		V_{RSM}	700 and 900	V
RMS on-state current(full sine wave)	TC=90℃	IT(RMS)	26	A
	TC=70℃			
Non repetitive surge peak on-state current(full cycle,TJ=25℃)	f=60Hz,t=16.7ms	ITSM	270	A
	f=50Hz,t=20ms		260	
I^2t Value for fusing	Tp=10ms	I^2t	260	A^2s
Critical rate of rise of on-state current IG=2*IGT,tr≤100ns,f=120Hz,Tj=125℃		dI/dt	100	A/us
Peak gate current(tp=20us,Tj=125℃)		I_{GM}	4	A
Peak gate power dissipation(tp=20us,Tj=125℃)		P_{GM}	10	W
Average gate power dissipation(Tj=125℃)		PG(AV)	1	W

Electrical Characteristics (Tj=25℃,unless otherwise specified)

Symbol	Test Condition	Quadrant		Limit		Unit
				CW(C)	BW(B)	
I_{GT}	V_D=12V,R_L=33Ω	Ⅰ-Ⅱ-Ⅲ	MAX	35	50	mA
V_{GT}		Ⅰ-Ⅱ-Ⅲ	MAX	1.5		V
V_{GD}	V_D=V_{DRM} R_L=3.3KΩ Tj=125℃	Ⅰ-Ⅱ-Ⅲ	MIN	0.2		V
IL	I_G=1.2I_{GT}	Ⅰ-Ⅲ	MAX	50	70	mA
		Ⅱ	MAX	60	80	mA
IH	I_T=100mA		MAX	40	60	mA
Dv/dt	VD=67%VDRM gate open TJ=125℃		MIN	250	500	V/us
(Dv/dt)c	(dI/dt)c=8.8A/ms Tj=125℃		MIN	7	12.5	V/us

Static Characteristics

Symbol	Parameter		Value(MAX)	Unit
V_{TM}	ITM=28A,tp=380us	Tj=25℃	1.55	V
I_{DRM}	VD=V_{DRM} VR=V_{RRM}	Tj=25℃	5	uA
I_{RRM}		Tj=125℃	2.5	mA

Thermal Resistances

Symbol	Parameter	Value	Unit
Rth(J-C)	Junction to case(AC)	2.1	℃/W