

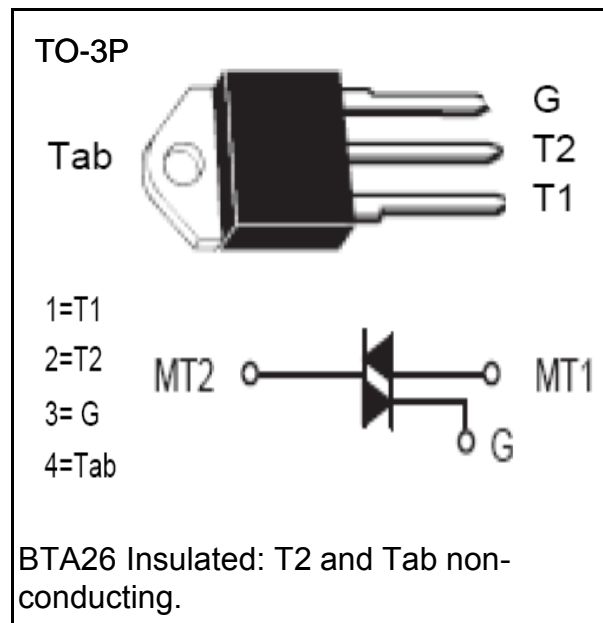
## 3 Quadrants / 4 Quadrants TRIAC

### Features

- IT(RMS): 25A
- VGT: 1.5V
- VDRM VRRM:800Vand1000V

### Applications

Washing machine, vacuums, massager, solid state relay, AC Motor speed regulation and so on.



### Absolute Maximum Ratings(Tc=25°C unless otherwise specified)

Symbol	parameter	Conditions	Ratings	Unit
VDRM VRRM	Repetitive Peak Off-State Voltage	BTA26-800	800	V
		BTA26-1000	1000	V
IT(RMS)	R.M.S On-State Current	Tc=110°C	25	A
ITSM	Surge On-State Current	f=50/60Hz    tp=16.7ms/20ms	250/260	A
I <sup>2</sup> t	I <sup>2</sup> t for fusing	Tp=10ms	340	A <sup>2</sup> s
PG(AV)	Average Gate Power Dissipation	Tj=125°C	1	W
IGM	Peak Gate Current	Tj=125°C	6	A
Tj	Operating Junction Temperature		-40~125	°C
TSTG	Storage Temperature		-40~150	°C

**Electrical Characteristics(Tc=25°C unless otherwise specified)**

symbol	parameter		Test Conditions	Value			Unit
				CW	BW	B	
IDRM	Repetitive Peak Off-State Current		Tc=25°C	5			uA
			Tc=125°C	3			mA
IRRM	Repetitive Peak Reverse Current		Tc=25°C	5			uA
			Tc=125°C	3			mA
VTM	Forward "on" voltage		IT=35A, tp=380us	1.55			V
VGT	Gate trigger voltage		VD=12V ,RL=30Ω	≤1.5			V
di/dt	Critical rate of rise of on-state current	I,II,III	F=120Hz,Tj=125°C, IG=2xIGT,tr≤100ns	≥50			A/us
		IV		≥10			A/us
IGT	Gate trigger current	I,II,III	VD=12V, RL=30Ω	≤35	≤50	≤50	mA
		IV		/	/	≤100	mA
IH	Holding current		IT=0.2A	≤60	≤80	≤80	mA
V DG	Gate non-trigger voltage	ALL	VD=VDRM, Tj=125°C	≥0.2			V
dv/dt	Critical-rate of rise of commutation voltage		Tj=125°C , VD=2/3VDRM , Gate open circuit	≥400	≥1000	≥500	V/us
Rth(j-c)	Thermal resistance		Junction to case	1.1			°C/W
Rth(j-a)	Thermal resistance		Junction to ambient	50			°C/W

## characteristic curve

FIG.1: Gate characteristics

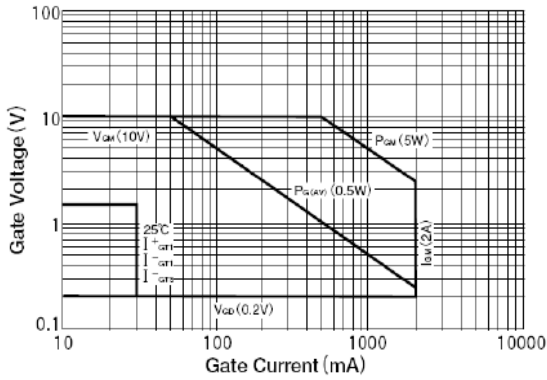


FIG.2: On-state characteristics(max)

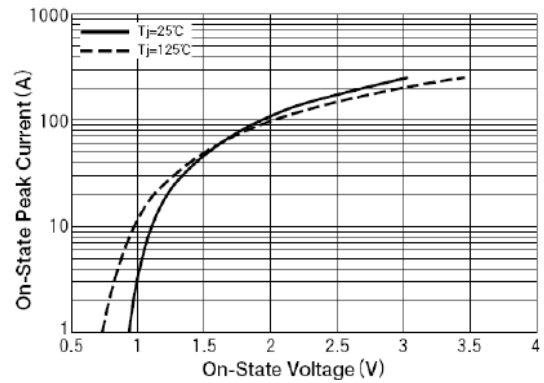


FIG.3: Gate trigger voltage vs junction temperature

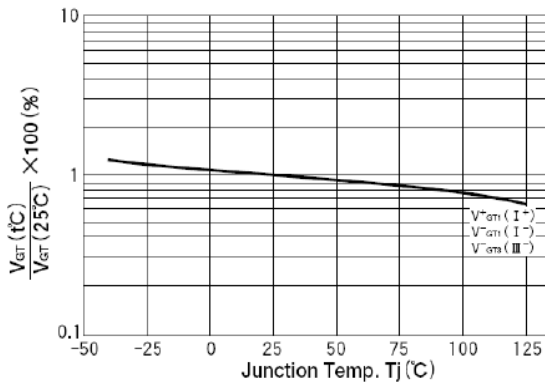


FIG.4: on-state current vs max power Dissipation

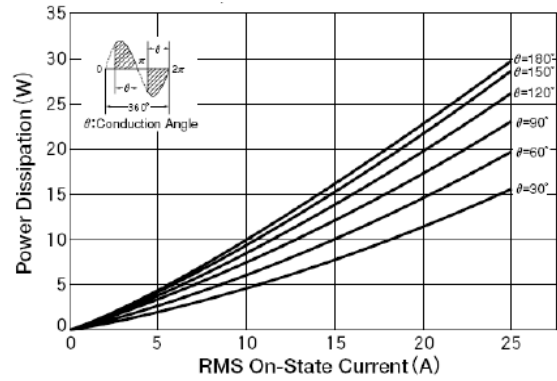


FIG.5: RMS On-state vs Allowable Case Temperature

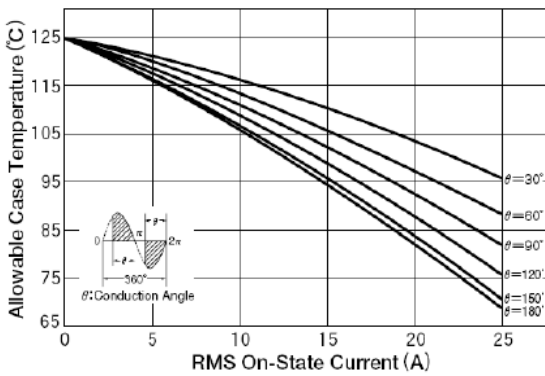
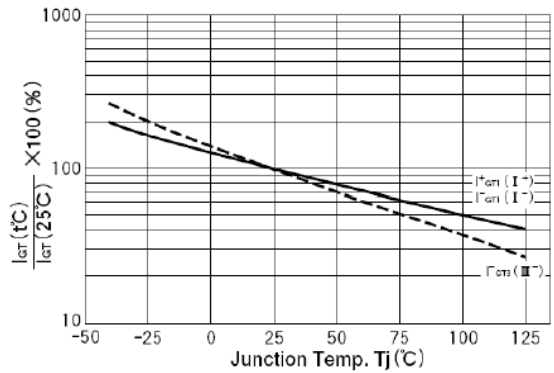
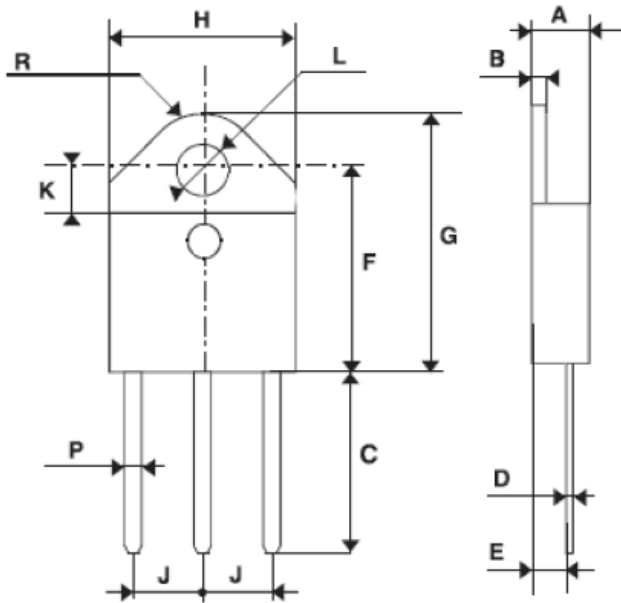


FIG.6: Gate trigger current vs junction temperature



# PACKAGE MECHANICAL DATA

## TO-3P Package Dimension



REF.	DIMENSIONS					
	Unit: mm			Unit: Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.4		4.6	0.173		0.181
B	1.45		1.55	0.057		0.061
C	14.35		15.60	0.565		0.614
D	0.5		0.7	0.020		0.028
E	2.7		2.9	0.106		0.114
F	15.8		16.5	0.622		0.650
G	20.4		21.1	0.815		0.831
H	15.1		15.5	0.594		0.610
J	5.4		5.65	0.213		0.222
K	3.4		3.65	0.134		0.144
L	4.08		4.17	0.161		0.164
P	1.20		1.40	0.047		0.055
R		4.60			0.181	

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