

26A 4Quadrants TRIACs

Product Summary

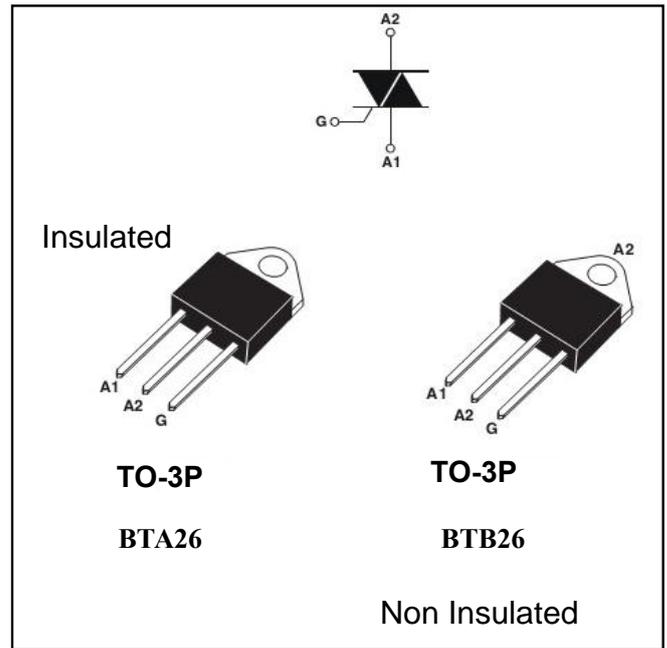
Symbol	Value	Unit
$I_{T(RMS)}$	26	A
$V_{DRM} V_{RRM}$	800/1000	V
V_{TM}	1.50	V

Features

With high ability to withstand the shock loading of large current, Provide high dv/dt rate with strong resistance to electromagnetic interference

Application

Power charger, T-tools, massager, solid staterelay, AC Motor speed regulation and so on.



Absolute maximum ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive peak off-state voltage	V_{DRM}	800/1000	V
Repetitive peak reverse voltage	V_{RRM}	800/1000	V
RMS on-state current (BTA Tc=80°C, BTB Tc=90°C)	$I_{T(RMS)}$	26	A
Non repetitive surge peak on-state current (t=20ms, F=50Hz)	I_{TSM}	260	A
I^2t value for fusing (tp=10ms)	I^2t	340	A ² S
Critical rate of rise of on-state current (Tj=125°C)	di/dt	50	A/μs
Peak gate current (tp=20us, Tj=125°C)	I_{GM}	4	A
Average gate power dissipation (Tj=125°C)	$P_G (AV)$	1	W
Junction Temperature	T_J	-40~+125	°C
Storage Temperature	T_{STG}	-40 ~+150	°C

Electrical characteristics (TA=25°C, unless otherwise noted)

Parameter	Symbol	Test Condition	Value	Unit
Gate trigger current	I_{GT}	$V_D=12V R_L=100\Omega$	I - II - III	MAX. ≤ 50 mA
			IV	MAX. ≤ 120 mA
Gate trigger voltage	V_{GT}	-	MAX. 1.5	V
Gate non-trigger voltage	V_{GD}	$V_D=V_{DRM} T_j=125^\circ C$	I - II - III	MIN. 0.2 V
Holding current	I_H	$I_T=0.5A$	-	MAX. 60 mA
latching current	I_L	$I_G=1.2I_{GT}$	-	MAX. 60 mA
			-	MAX. 100 mA
Critical-rate of rise of commutation voltage	dV/dt	$V_D=2/3V_{DRM} T_j=125^\circ C$	MIN. 500	V/ μs

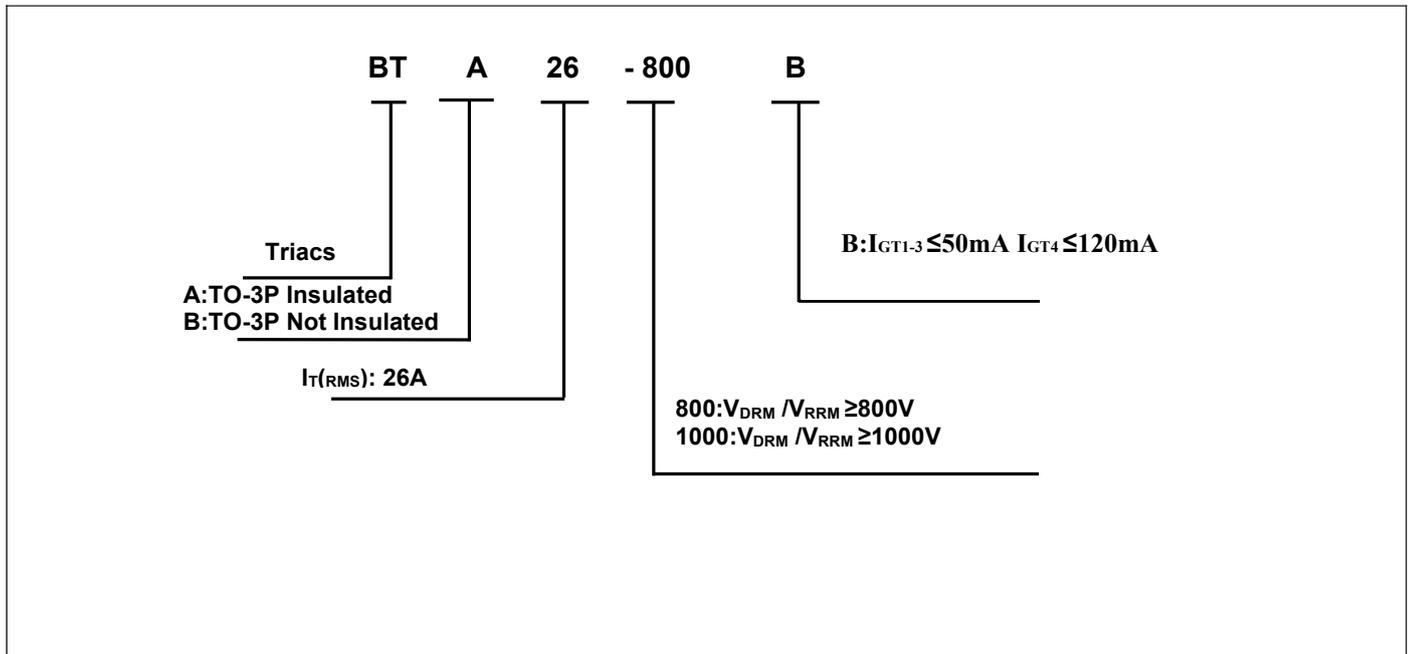
STATIC CHARACTERISTICS

Forward "on" voltage	V_{TM}	$I_{TM}=52A$	MAX. 1.50	V
Repetitive Peak Off-State Current	I_{DRM}	$V_D=V_{DRM} V_R=V_{RRM}$	$T_j=25^\circ C$	MAX. 10 μA
Repetitive Peak Reverse Current	I_{RRM}		$T_j=125^\circ C$	MAX. 2 mA

THERMAL RESISTANCES

Thermal resistance	$R_{th(j-c)}$	Junction to case	BTA	0.9	$^\circ C/W$
	$R_{th(j-a)}$	Junction to ambient	BTB	0.6	$^\circ C/W$

Ordering Information



Typical Characteristics

FIG1

Maximum power dissipation versus RMS on-state current

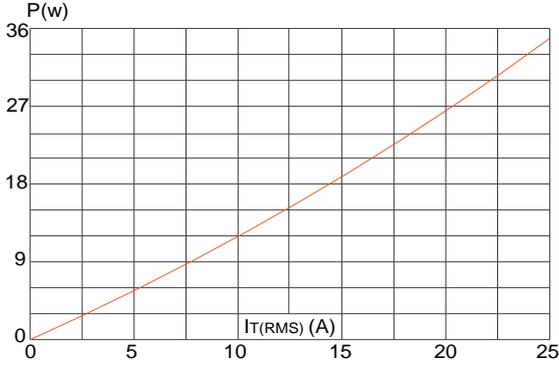


FIG2

RMS on-state current versus case temperature

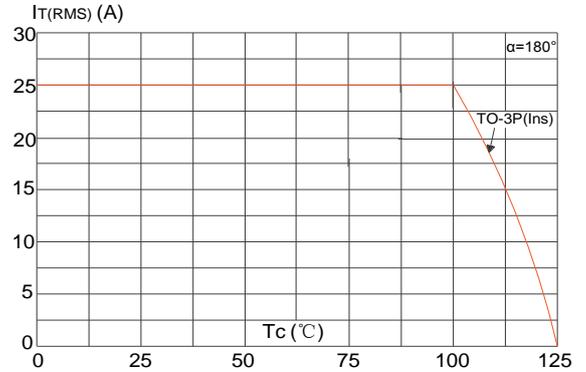


FIG3

Surge peak on-state current versus number of cycles

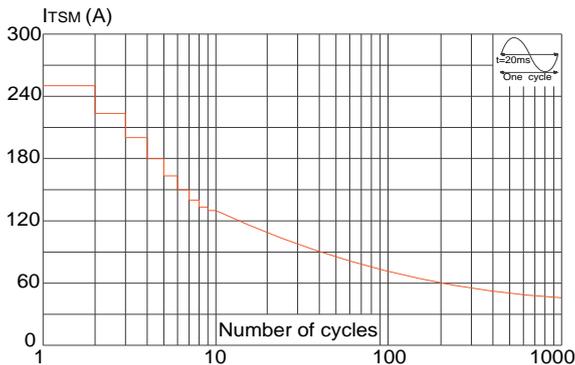


FIG4

On-state characteristics (maximum values)

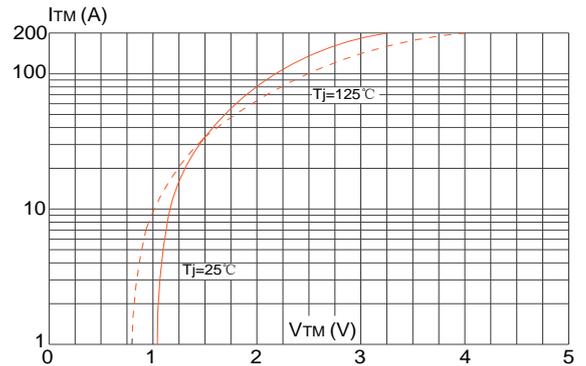


FIG5

Non-repetitive surge peak on-state current for a sinusoidal pulse with width $t_p < 20\text{ms}$, and corresponding value of I^2t ($di/dt < 100\text{A}/\mu\text{s}$)

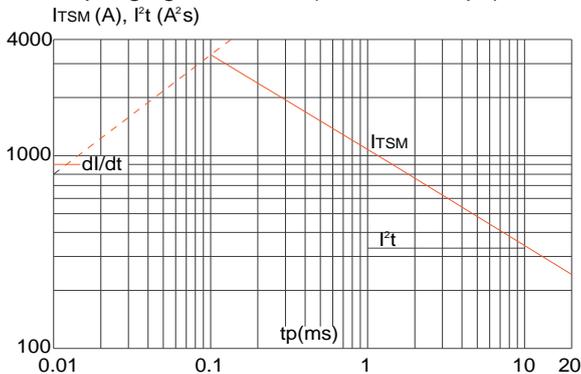
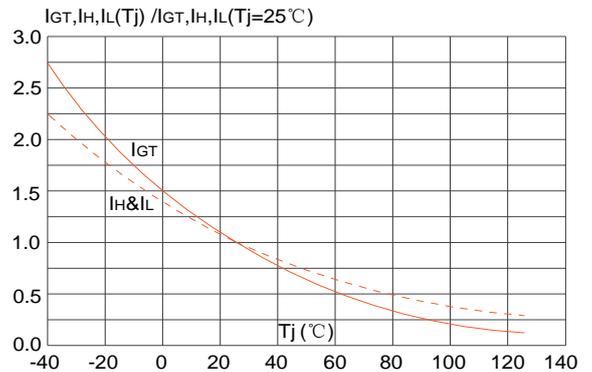
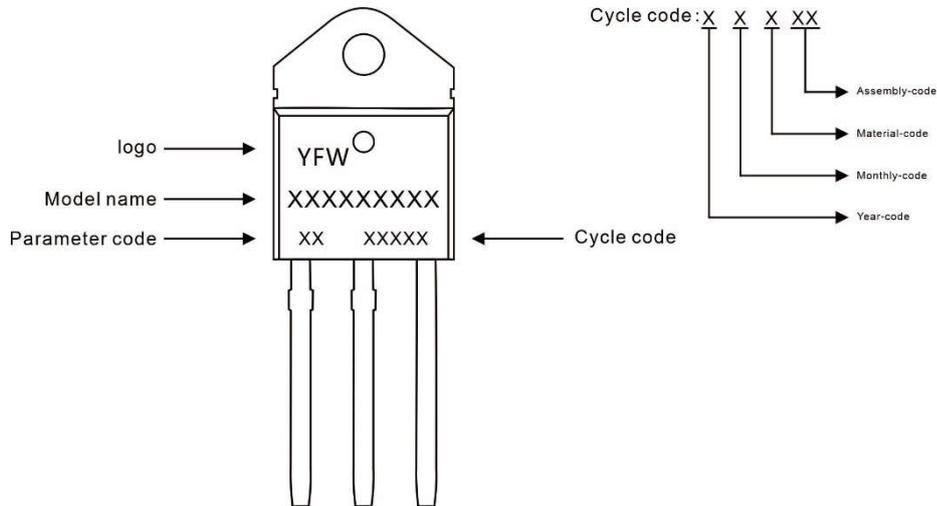


FIG6

Relative variations of gate trigger current, holding current and latching current versus junction temperature



Marking Diagram



Ordering information

Model name	Package	Base Quantity	Packing Quantity
BTA26/BTB26-XXXXB	TO-3P	30pcs/tube	600PCS/Box 2400PCS/Carton

Package Dimensions

TO-3P(Insulated)

Symbol	Dimensions in mm		Dimensions in Inch	
	Min.	Max.	Min.	Max.
A	14.9	15.35	0.587	0.604
B	4.1	4.65	0.161	0.183
C	20.21	20.75	0.796	0.798
D	1.12	1.32	0.044	0.052
E	5.35	5.62	0.211	0.221
H	7.85	8.22	0.309	0.324
K	2.71	2.92	0.107	0.115
L	2.5	3.2	0.098	0.126
L1	15.02	15.55	0.591	0.612
T	4.38	4.65	0.172	0.183
T1	1.42	1.62	0.056	0.064
T2	0.52	0.68	0.021	0.027
ΦR	4.12	4.31	0.162	0.170

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