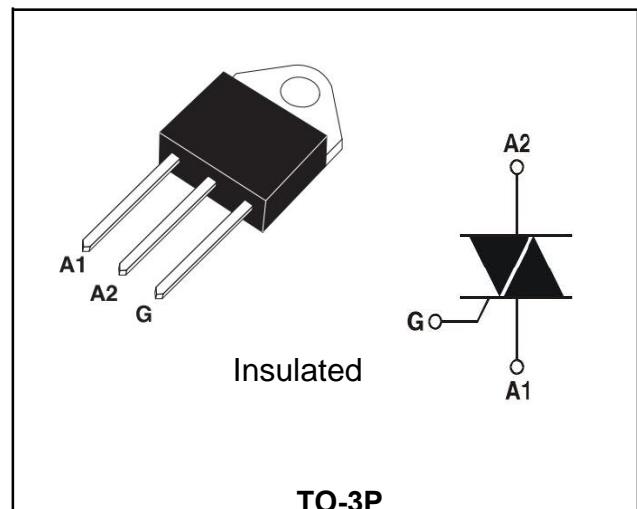


25A 3Quadrants TRIACs
Product Summary

Symbol	Value	Unit
$I_{T(AV)}$	25	A
$V_{DRM} V_{RRM}$	600	V
V_{TM}	1.55	V


Features

With high ability to withstand the shock loading of large current, With high commutation performances, 3 quadrants products especially recommended for use on inductive load.

Application

Washing machine, vacuums, massager, solid state relay, 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}	600	V
Repetitive peak reverse voltage	V_{RRM}	600	V
RMS on-state current	$I_T(RMS)$	25	A
Non repetitive surge peak on-state current (full cycle, F=50Hz)	I_{TSM}	250	A
I^2t value for fusing ($t_p=10ms$)	I^2t	340	A^2s
Critical rate of rise of on-state current ($ G = 2 \times G_T $)	dI/dt	50	$A/\mu s$
Peak gate current	I_{GM}	4	A
Average gate power dissipation	$P_G (AV)$	1	W
Junction Temperature	T_J	-40~+125	°C
Storage Temperature	T_{STG}	-40 ~+150	°C

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

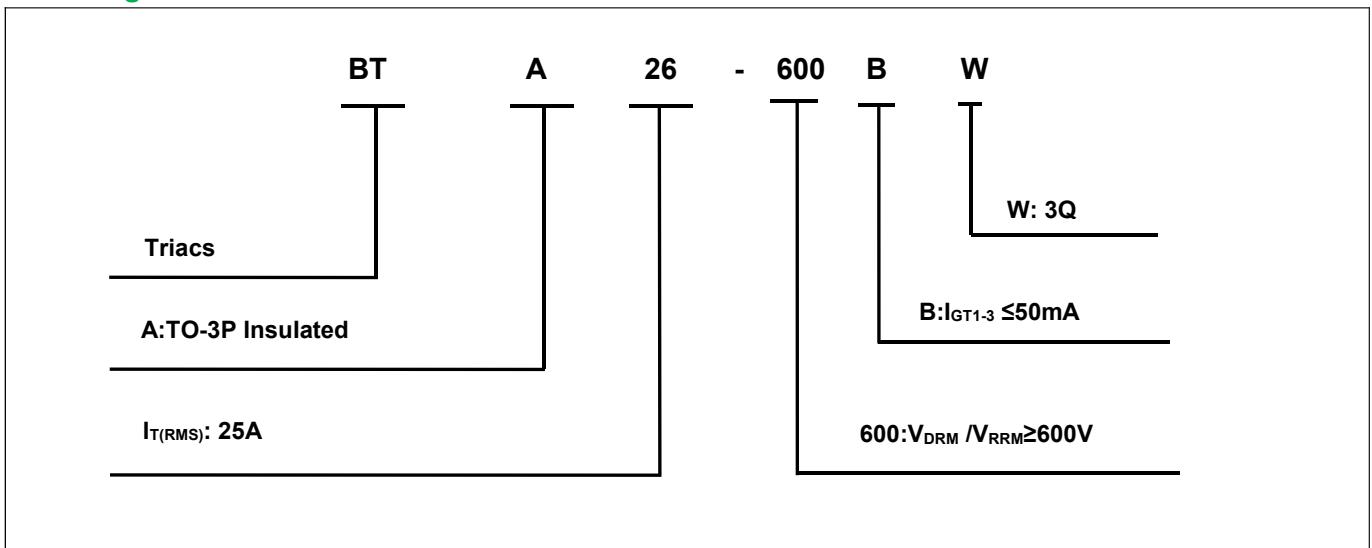
Parameter	Symbol	Test Condition		Value		Unit
Gate trigger current	I _{GT}	V _D =12V R _L =33Ω	I-II-III	MAX.	50	mA
Gate trigger voltage	V _{GT}		I-II-III	MAX.	1.3	V
Gate non-trigger voltage	V _{GD}	V _D =V _{DRM} T _j =125°C R _L =3.3KΩ	I-II-III	MIN.	0.2	V
latching current	I _L	I _G =1.2I _{GT}	I-II-III	MAX.	100	mA
Holding current	I _H	I _T =100mA		MAX.	50	mA
Critical-rate of rise of commutation voltage	dV _D /dt	V _D =2/3V _{DRM} Gate Open T _j =125°C		MIN.	1000	V/μs

STATIC CHARACTERISTICS

Forward "on" voltage	V _{TM}	I _{TM} =35A tp=380μs		MAX.	1.55	V
Repetitive Peak Off-State Current	I _{DRM}	V _D =V _{DRM} V _R =V _{RRM}	T _j =25°C	MAX.	10	μA
Repetitive Peak Reverse Current	I _{RRM}		T _j =125°C	MAX.	3	mA

THERMAL RESISTANCES

Thermal resistance	R _{th(j-c)}	Junction to case(AC)	TYP.	0.9	°C/W
	R _{th(j-a)}	Junction to ambient	TYP.	50	°C/W

Ordering Information


Typical Characteristics

FIG1 Maximum power dissipation versus RMS on-state current

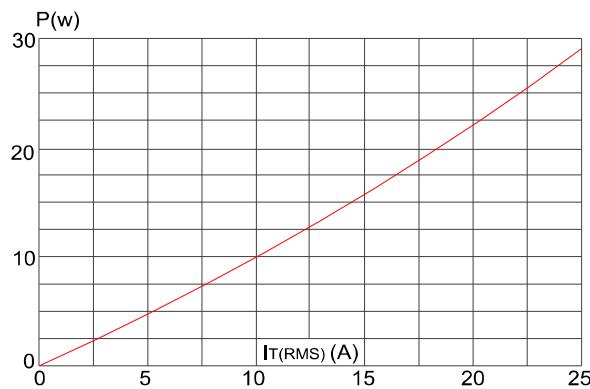


FIG2 RMS on-state current versus case temperature

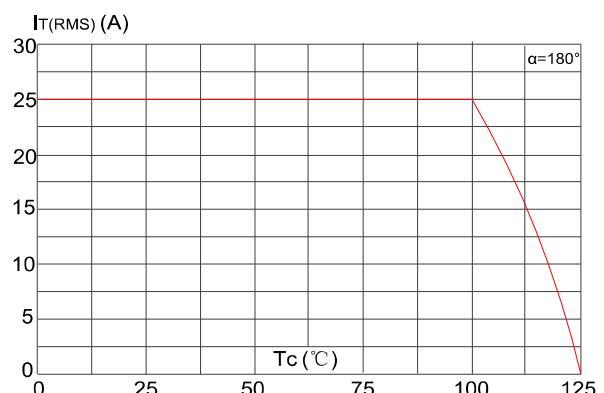


FIG3 Surge peak on-state current versus number of cycles

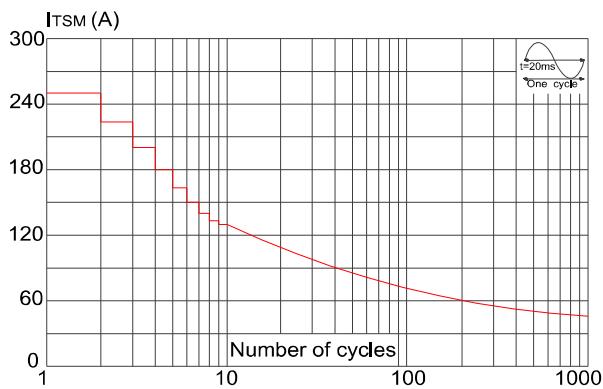


FIG4 On-state characteristics (maximum values)

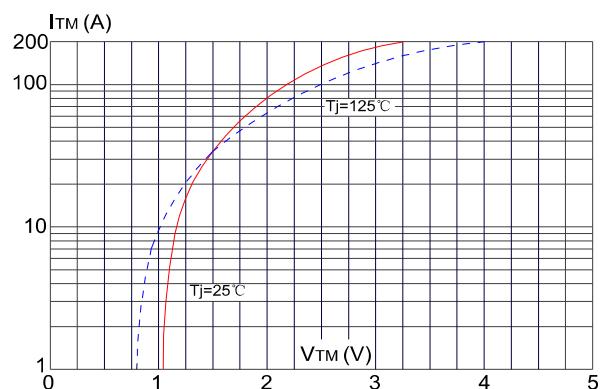


FIG5 Non-repetitive surge peak on-state current for a sinusoidal pulse with width tp<20ms, and corresponding value of I't (dl/dt < 100A/μs)

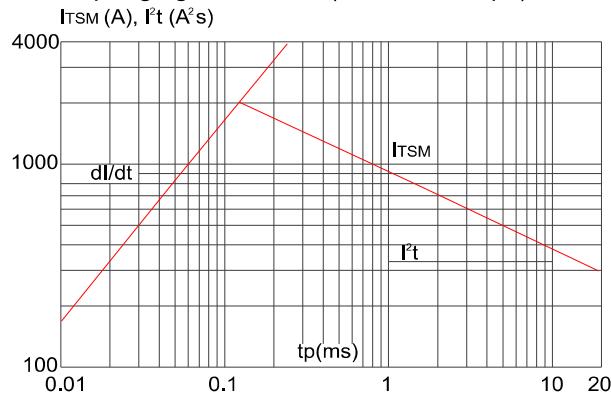
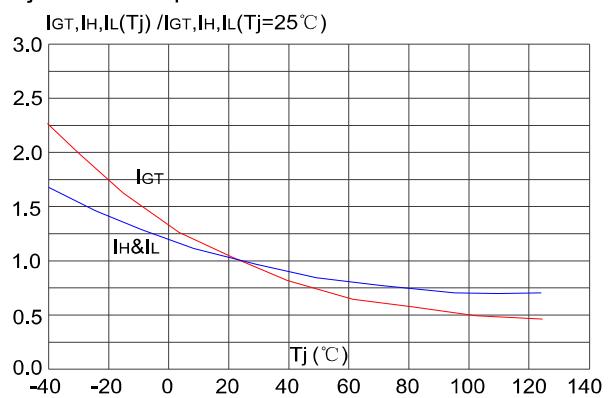
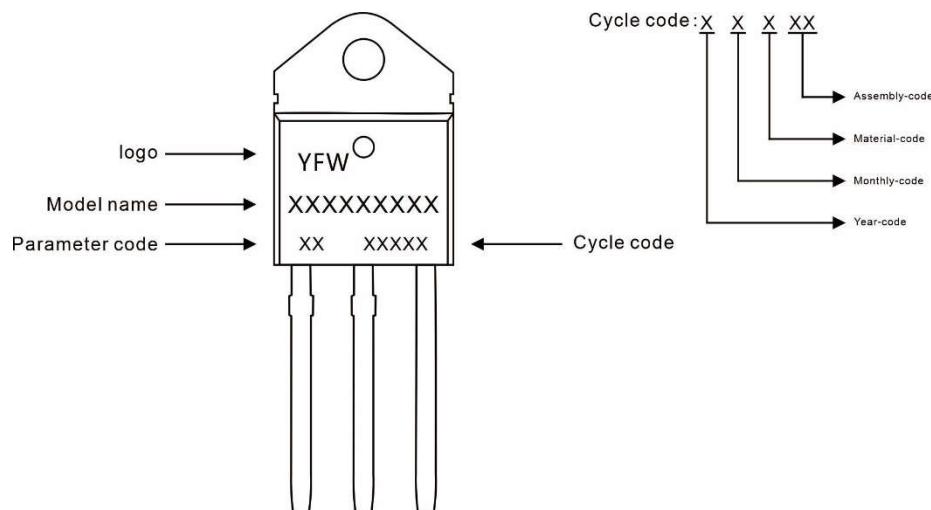


FIG6 Relative variations of gate trigger current, holding current and latching current versus junction temperature



Marking Diagram



Ordering information

Model name	Package	Base Quantity	Packing Quantity
BTA26-600BW	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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