

25A 3Quadrants TRIACs

Product Summary

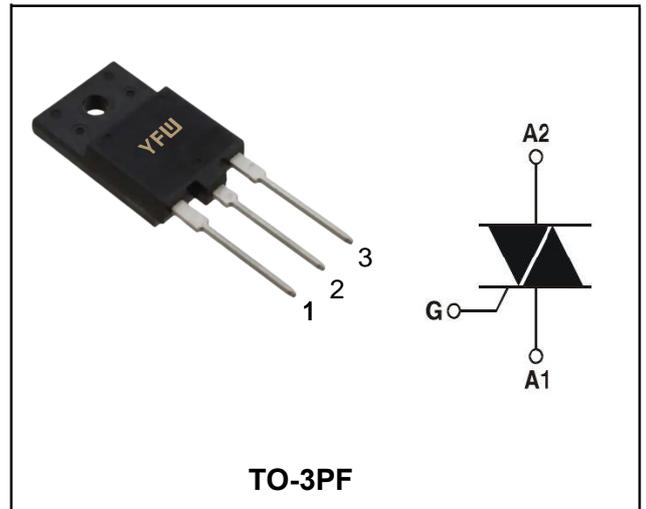
Symbol	Value	Unit
$I_{T(RMS)}$	25	A
$V_{DRM} V_{RRM}$	600/800	V
V_{TM}	1.55	V

FEATURES

Adopting oxygen-doped polysilicon and glass passivation multi-layer protection technology, it has the characteristics of low reverse leakage current, low on-state voltage drop, high reliability and stability.

APPLICATION

Mainly used in voltage regulation circuits such as dimming and temperature adjustment, electrical control circuits for microwave ovens, washing machines, electric fans, water dispensers, lighting and other appliances, as well as AC phase control, choppers, converters, inverters and solid state relay circuits.



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

Parameter	Symbol	Value	Unit
Repetitive peak off-state voltage	V_{DRM}	600/800	V
Repetitive peak reverse voltage	V_{RRM}	600/800	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 (tp=10ms)	I^2t	312	A ² S
Critical rate of rise of on-state current ($I_G = 2 \times I_{GT}$)	di_T/dt	I - II - III 80	A/ μ 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	
			CW	BW		
Gate trigger current	I _{GT}	V _D =12V, R _L =30Ω	I - II - III	≤35	≤50	mA
Gate trigger voltage	V _{GT}		I - II - III	≤1.3		V
Non-triggering gate voltage	V _{GD}	V _D =V _{DRM} , R _L =3.3kΩ, T _J =125°C		≤0.2		V
Holding current	I _H	I _T =100mA		≤35	≤50	mA
Latching current	I _L	I _G =1.2I _{GT}	I - III	≤50	≤70	mA
			II	≤60	≤80	
Critical-rate of rise of commutation voltage	dV _D /dt	V _D =67%V _{DRM} , T _J =125°C		≥400	≥1000	V/μs

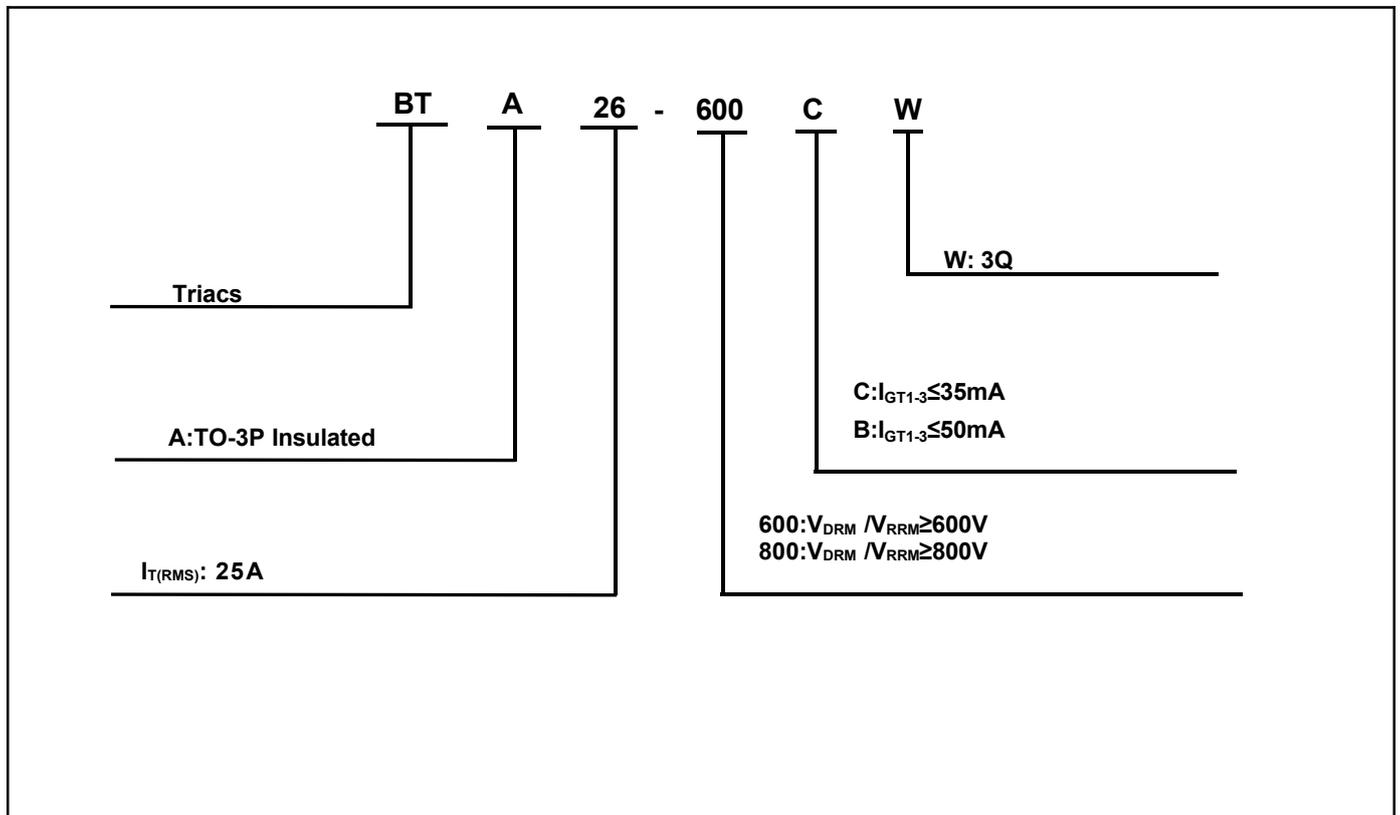
STATIC CHARACTERISTICS

On-state Voltage	V _{TM}	I _{TM} =35A, t _p =380μs		≤1.55		V
Repetitive Peak Off-State Current	I _{DRM}	V _D =V _{DRM} = V _{RRM}	T _J =25°C	≤10	≤10	μA
Repetitive Peak Reverse Current	I _{RRM}		T _J =125°C	≤5	≤5	mA

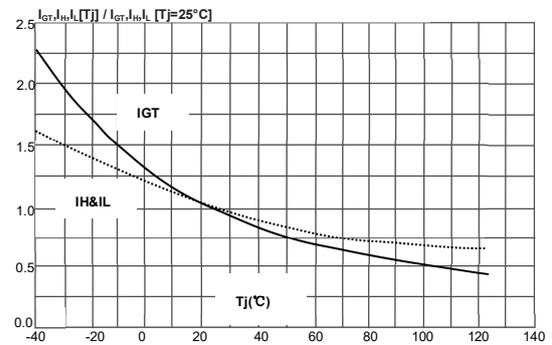
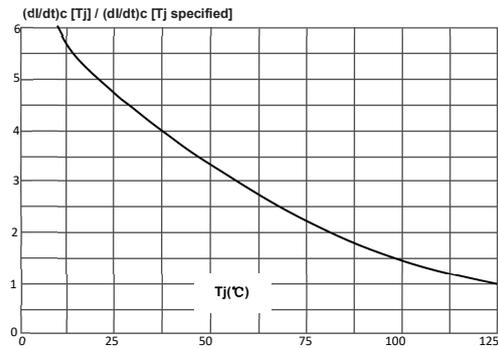
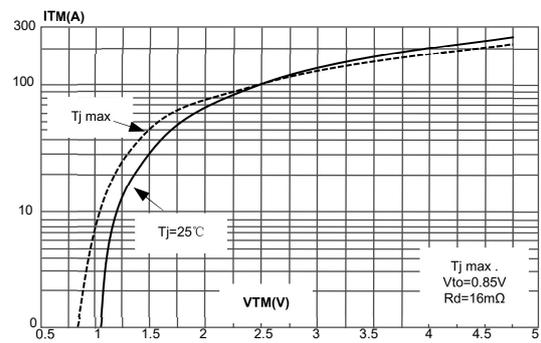
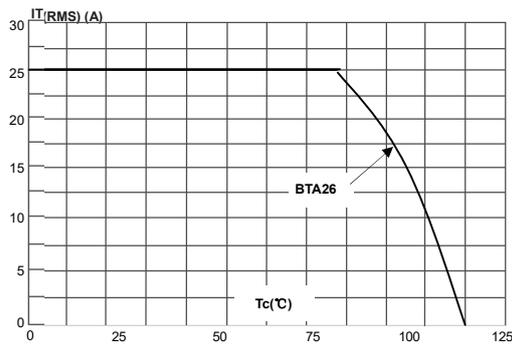
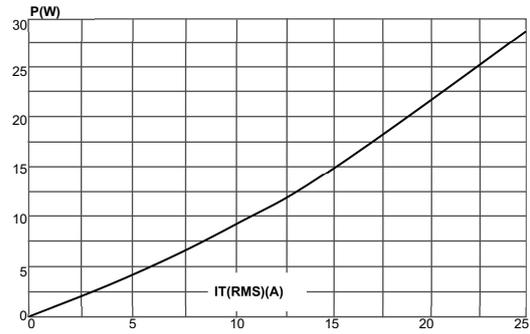
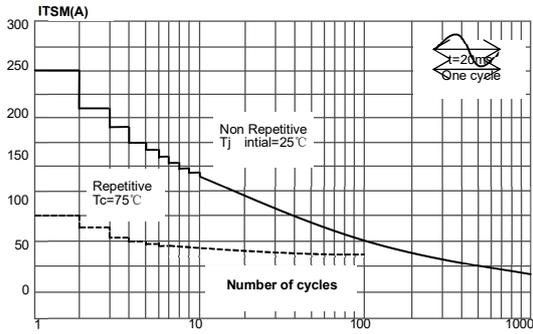
THERMAL RESISTANCES

Thermal resistance	R _{th(j-c)}	Junction to case	MAX	0.9	°C/W
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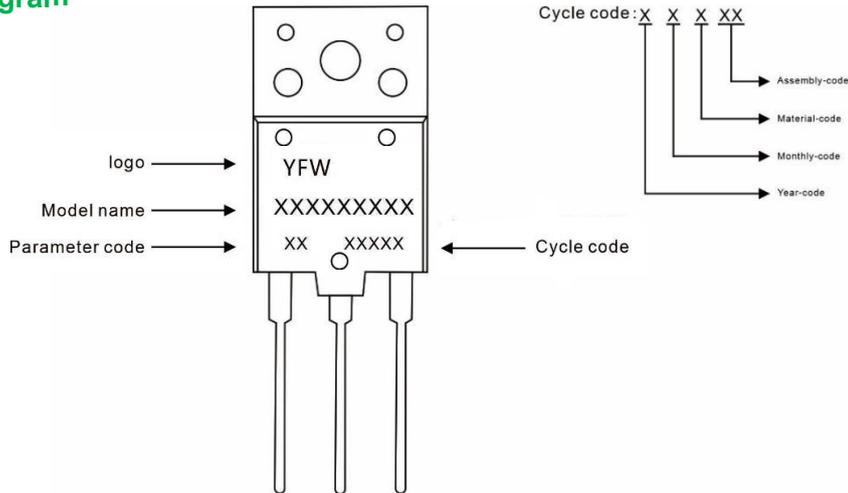
Ordering Information



Typical Characteristics



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
BTA26PF	TO-3PF	-	30pcs/tube	600PCS/Box 2400PCS/Carton

Package Dimensions

TO-3PF

Symbol	Dimensions in mm		Dimensions in Inch	
	Min.	Max.	Min.	Max.
A	5.30	5.70	0.209	0.224
C	2.80	3.20	0.110	0.126
D	3.10	3.50	0.122	0.138
D1	1.80	2.20	0.071	0.087
E	0.80	1.10	0.032	0.043
F	0.65	0.95	0.026	0.037
F2	1.80	2.20	0.071	0.087
G	10.30	11.50	0.406	0.453
G1	5.45		0.215	
H	15.30	15.70	0.602	0.618
L	9.80	10.20	0.386	0.402
L2	22.80	23.20	0.898	0.913
L3	26.30	26.70	1.04	1.05
L4	43.20	44.40	1.70	1.75
L5	4.30	4.70	0.169	0.185
L6	24.3	24.70	0.957	0.972
L7	14.6	15	0.575	0.591
N	1.80	2.20	0.071	0.087
R	3.80	4.20	0.150	0.165
Dia	3.40	3.80	0.134	0.150

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