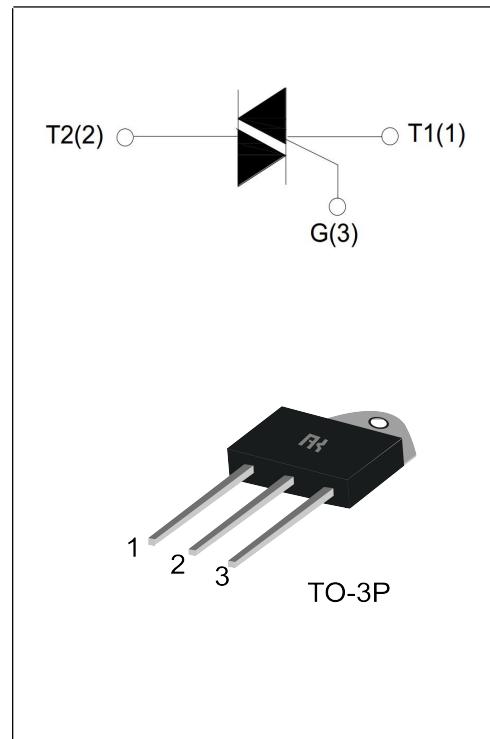


BTA26 Serial Standard TRIACS

GENERAL DESCRIPTION :

High current density due to double mesa technology;
 Glass Passivation.BTA26 series TRIACS is suitable
 for general purpose AC switching.they can be used as
 an ON/OFF Function in applications such as static
 relays,heating regulation,induction motor stating
 circuits..or for phase control operation light dimmers,
 motor speed controllers.



Main Features:

I_{T(RMS)}	V_{DRM/V_{RRM}}	I_{GT}
25A	600/800/1200V	5 to 50mA

Absolute Ratings(limiting values) :

Symbol	Parameter		Value	Unit
T_{stg}	Storage junction temperature range		- 40 to + 150	°C
T_j	Operating junction temperature range		- 40 to + 125	°C
I_{T(RMS)}	RMS on-state current	TO-3P(Ins) (TC=80°C)	25	A
I_{TSM}	Non repetitive surge peak on-state current (tp=20ms)		250	A
V_{DRM}	Repetitive peak off-state voltage(Tj =25°C)		600/800/1200	V
V_{RRM}	Repetitive peak reverse voltage(Tj =25°C)		600/800/1200	V
V_{DSDM}	Non repetitive surge peak Off-state voltage		V _{DRM} + 100	V
V_{RSM}	Non repetitive peak reverse voltage		V _{RRM} + 100	V
I²t	I ² t value for fusing tp = 10 ms		340	A ² s
dI/dt	Critical rate of rise of on-state current (I _G =2 × I _{GT})		50	A/μs

I_{GM}	Peak gate current	4	A
P_{G(AV)}	Average gate power dissipation	1	W
P_{GM}	Peak gate power	10	W

Electrical Characteristics : (T_j=25°C unless otherwise specified)

Symbol	Test Condition	Quadrant	Range	Value	Unit
I_{GT}	V _D =12V R _L =33Ω	I-II-III	MAX	50	mA
V_{GT}		I-II-III	MAX	1.3	V
V_{GD}	V _D =V _{DRM} R _L =3.3kΩ T _j =125°C	I-II-III	MIN	0.2	V
I_L	I _G =1.2 I _{GT}	I-III	MAX	80	mA
		II		100	
I_H	I _{TM} = 100mA		MAX	70	mA
dV/dt	V _D =2/3V _{DRM} Gate Open T _j =125°C		MIN	1000	V/μs
(dV/dt)c	Without snubber T _j =125°C		MIN	22	V/μs

Static Characteristics

Symbol	Parameter		Value(MAX)	Unit
V_{TM}	I _{TM} =60A tp= 380μs	T _j =25°C	1.5	V
I_{DRM} I_{RRM}	V _D =V _{DRM} , V _R =V _{RRM}	T _j =25°C	5	μ A
		T _j =125°C	3	mA

Thermal Resistances :

Symbol	Parameter	Value	Unit
R_{th(j-c)}	Junction to case for AC	TO-3P(Ins)	1.1 °C/W

Fig.1: Maximum power dissipation versus RMS on-state current

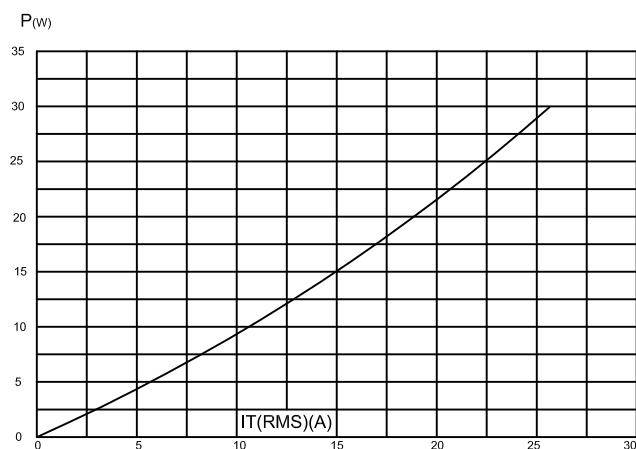


Fig.2 : RMS on-state current versus case temperature

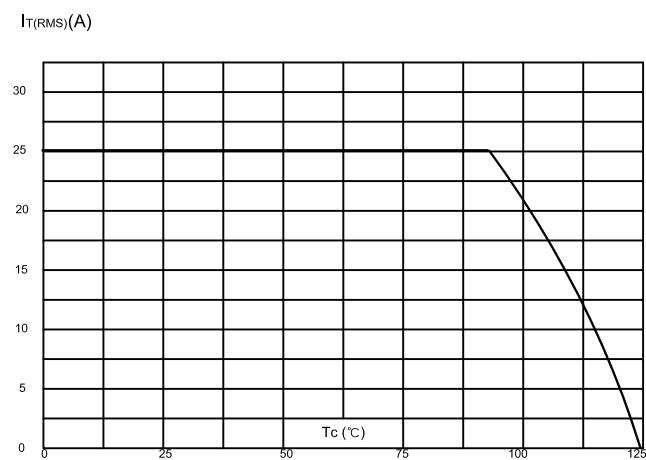


Fig.3 : Surge peak on-state current versus number of cycles

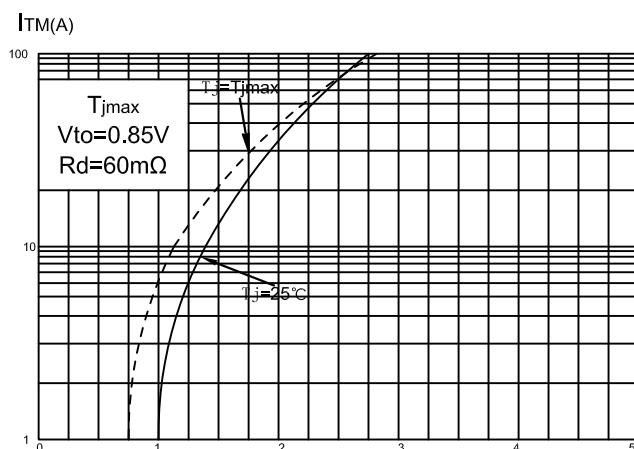


Fig.4 : On-state characteristics (maximum values)

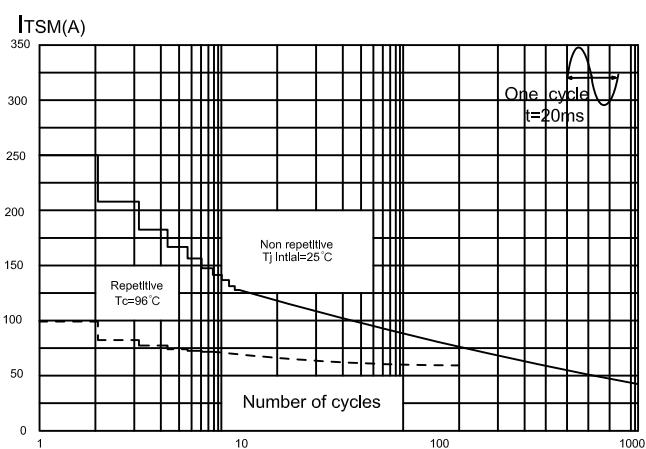


Fig.5 : Non-repetitive surge peak on-state current for a sinusoidal pulse with width $t_p < 20ms$ and corresponding value of $I_t(t) (dI/dt < 50A/\mu s)$

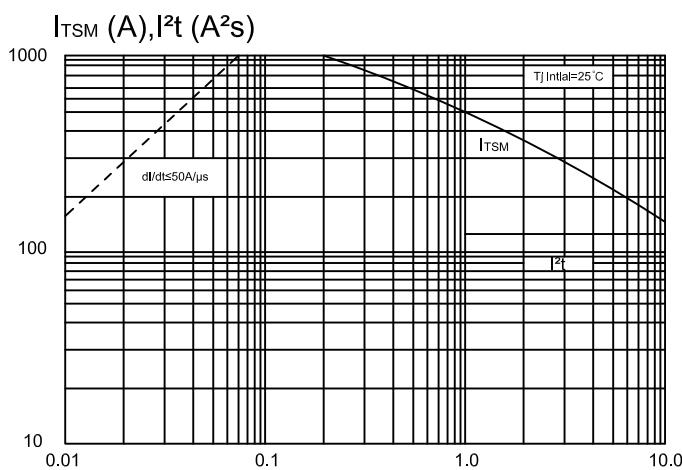
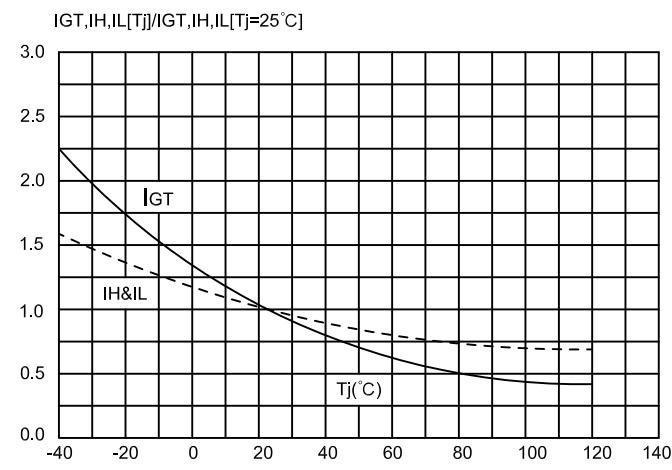
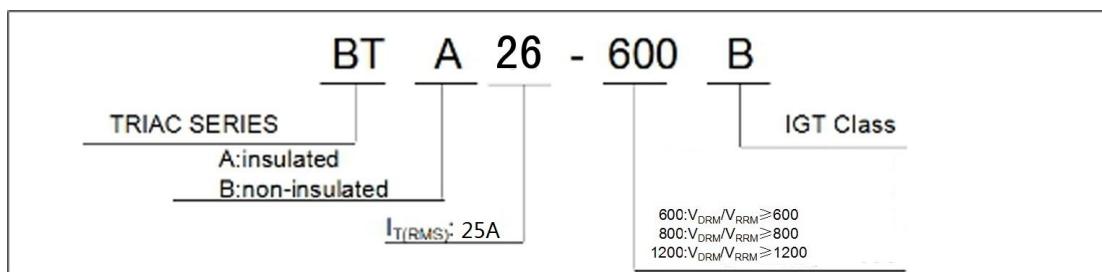


Fig.6: Relative variations of gate trigger current, holding current and latching current versus unction temperature



Ordering Information:



Package Mechanical Data :

