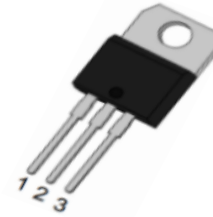


● Application

Mainly used for dimming, temperature regulation and other voltage regulation circuits, microwave ovens, washing machines, electric fans, drinking fountains, lighting and other electrical control circuits, AC phase control, choppers, inverters, frequency converters and solid state relays and other circuits.



● Features

The use of oxygen-doped polysilicon and glass passivation multi-layer protection technology is characterized by low reverse leakage, low on-state voltage drop, high reliability and stability.

TO-220A/B

● limit value

符号	参数			数值	Units
V_{DRM}	断态重复峰值电压			800	V
V_{RRM}	反向重复峰值电压			800	V
$I_{T(RMS)}$	通态均方根电流(正弦波,非重复, $T_j=25^{\circ}C$)			16	A
I_{TSM}	浪涌电流(全正弦波)	F=50Hz	t=20ms	160	
		F=60Hz	t=16.7ms	168	
I^2t	$I_G=2 \times I_{GT}, t \leq 100ns$	$t_p=10ms$		128	A ² s
di/dt	通态电流临界上升率	F=120Hz	$T_j=125^{\circ}C$	50	A/ μs
I_{GM}	门极峰值电流	$t_p=20\mu s$	$T_j=125^{\circ}C$	4	A
$P_{G(AV)}$	平均门极功率		$T_j=125^{\circ}C$	1	W
T_{stg}	贮存温度			- 40 to + 150	$^{\circ}C$
T_j	结温			- 40 to + 125	

● Electrical characteristics

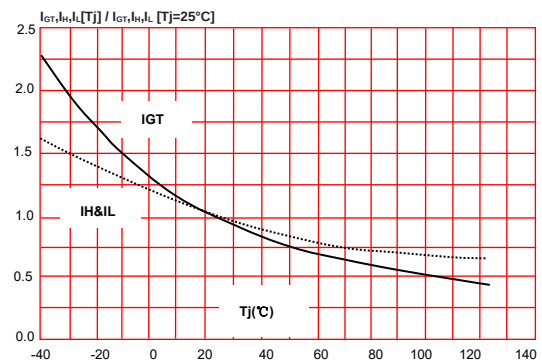
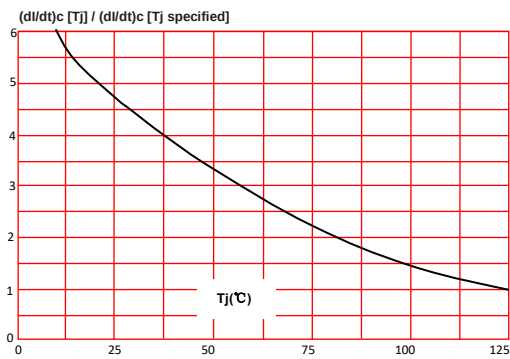
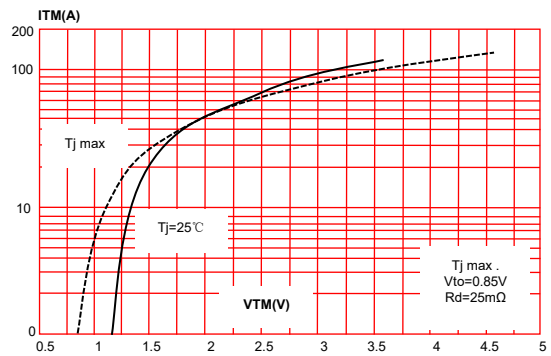
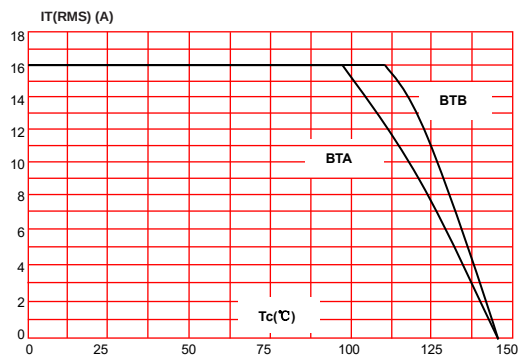
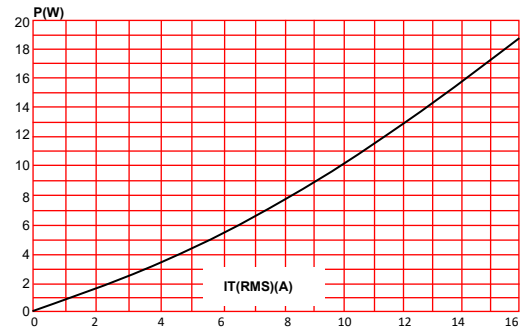
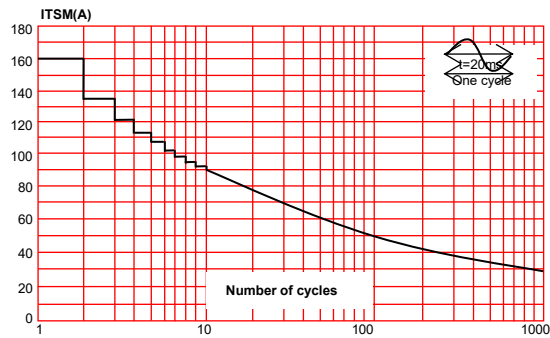
Three Quadrant Products

符号	参数	测试条件	象限		SW	CW	BW	Units
I _{DRM}	断态峰值重复电流	V=V _{DRM} =V _{RRM} , T _J =25℃	ALL	MAX	10			μA
I _{RRM}	反向峰值重复电流	V=V _{DRM} =V _{RRM} , T _J =125℃	ALL		5			mA
I _{GT}	门极触发电流	V _D =12V, R _L =30Ω	I-II-III	MAX	10	35	50	mA
V _{GT}	门极触发电压				1.3			V
V _{GD}	门极不触电压	V _D =V _{DRM} , R _L =3.3kΩ, T _J =125℃		MIN	0.2			V
V _{TM}	通态压降	I _T =22.5A, t _p =380μs		MAX	1.55			V
I _H	维持电流	I _T =100mA	I-III	MAX	15	35	50	mA
I _L	擎住电流	I _G =1.2I _{GT}				25	50	
			II		30	60	80	
dV/dt	断态电压上升率	V _D =67%V _{DRM} , gate open T _J =125℃		MIN	40	400	1000	V/μs

● Thermal resistance

参数	外形	MAX	Units
结到安装面的热阻 $R_{th(j-c)}$	TO-220A	2.3	$^{\circ}C/W$
	TO-220B	1.4	

● Characteristic data



● Product Stamp

双向可控硅系列

绝缘类型: A=绝缘, B=非绝缘

$I_{T(RMS)}$: 16=16A

BT

A

16

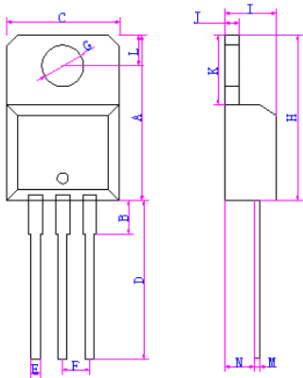
V_{DRM}/V_{RRM} : 800=800V

3Q 产品: BW= $I_{GT3} \leq 50mA$, CW= $I_{GT3} \leq 35mA$, SW= $I_{GT3} \leq 10mA$, TW= $I_{GT3} \leq 5mA$

800

CW

● Product Dimensions



TO-220A/B

REF.	DIMENSIONS	REF.	DIMENSIONS
	Millimeters		Millimeters
	Type		Type
A	15.25±0.3	H	15.25±0.3
B	3.5±0.5	I	4.47±0.2
C	10.1±0.2	J	1.28±0.1
D	13.3±0.5	K	6.45±0.3
E	0.81±0.2	L	2.85±0.3
F	2.54±0.1	M	0.5±0.1
G	3.78±0.2	N	2.65±0.3

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