

KC5FB60H

Thyristors 600V, 5A

Feature

- Small SMD
- High Voltage
- High Sensitivity
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified: Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	T _{stg}		-55 to 150	°C
Junction temperature	Tj		-40 to 125	°C
Repetitive peak off-state voltage	V _{DRM}	RGK=220Ω	600	V
Repetitive peak reverse voltage	V _{RRM}	RGK=220Ω	600	V
Average on-state Current	I _T (AV)	Tc=98°C, 60Hz sine wave, θ=180°	5	Α
Peak surge on-state current	I _{TSM}	Tj=25°C, 60Hz sine wave, θ=180°, Non repetitive	90	Α
Current squared time	I ² t	Tj=25°C, tp=8.3ms, Non repetitive	33.6	A ² s
Peak gate dissipation	P _{FGM}	f≧60Hz, Duty≦10%	2	W
Average gate dissipation	P _{FG} (AV)		0.2	W
Peak gate forward current	I _{FGM}	f=60Hz, Duty≦10%	0.3	Α
Peak gate reverse voltage	V_{RGM}		6	V
Critical rate of rise of on-state current	di/dt		50	A/μs

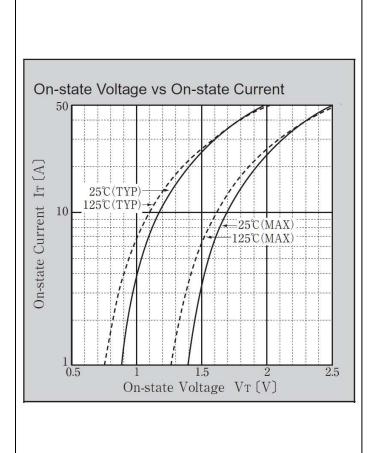
^{* :} See the original Specifications

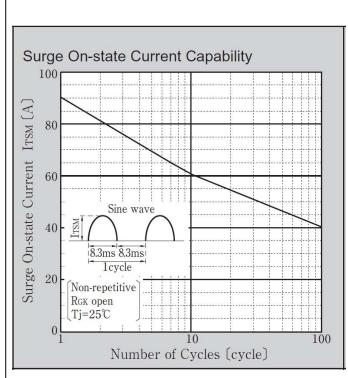
Electrical Characteristics (unless otherwise specified : Tc=25°C)

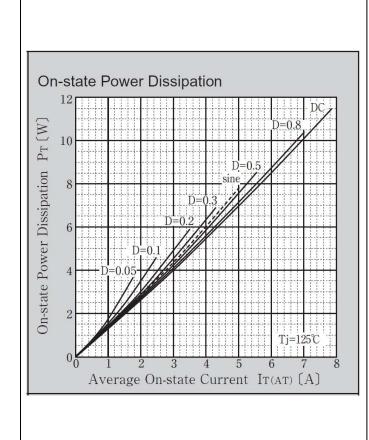
Item	Symbol	Conditions	Ratings			l lmit
			MIN	TYP	MAX	Unit
Repetitive off-state current	I _{DRM}	VD=600V, RGK=220Ω, Pulse measurement			10	μΑ
Repetitive reverse current	I _{RRM}	VR=600V , RGK=220Ω, Pulse measurement			10	μΑ
On-state voltage	V _{TM}	ITM=15A, Pulse measurement			1.8	V
Gate trigger voltage	V _{GT}	VD=6V, RL=100Ω			0.8	V
Gate trigger current	I _{GT}	VD=6V, RL=100Ω	1		100	μΑ
Gate non-trigger voltage	V_{GD}	Tj=125°C, VD=1/2VDRM, RGK=220Ω	0.1			V
Holding Current	I _H	IT=100mA, RGK=220Ω	0.2		5	mA
Thermal Resistance	Rth(j-c)	Junction to case			3	°C/W

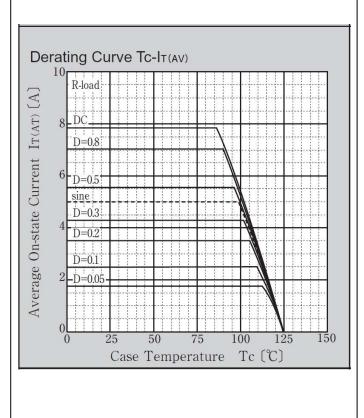
 $[\]divideontimes$: See the original Specifications

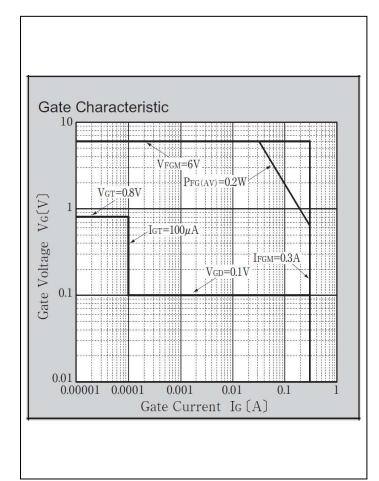
CHARACTERISTIC DIAGRAMS

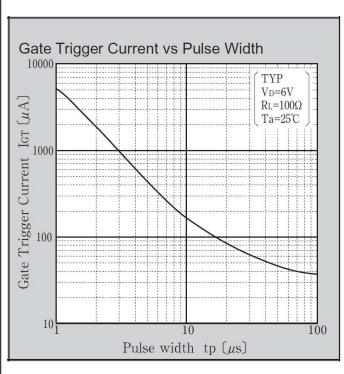


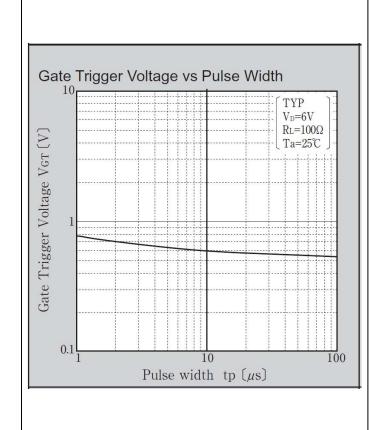


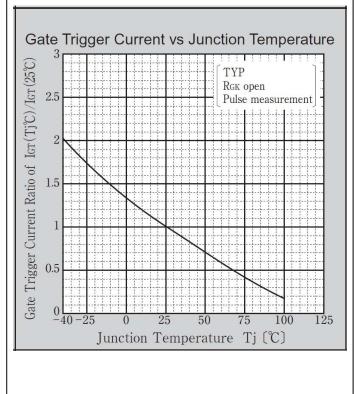


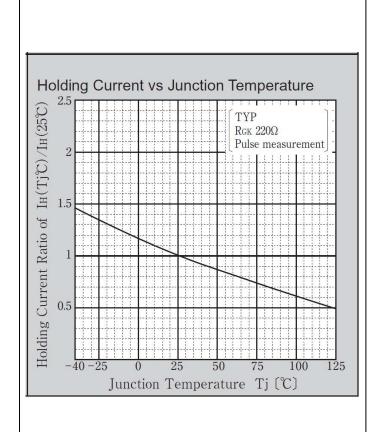


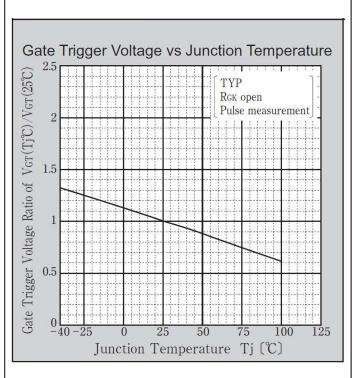








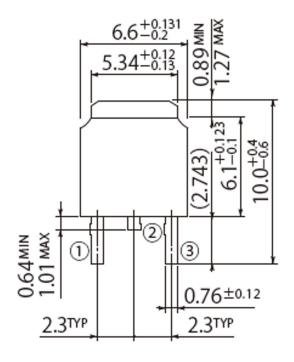


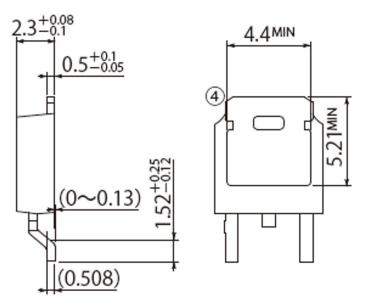


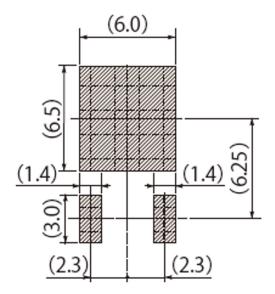
unit:mm

G2

JEDEC Code	TO-252AA	
JEITA Code	_	
House Name	FB	







Referential Soldering Pad

Notes

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