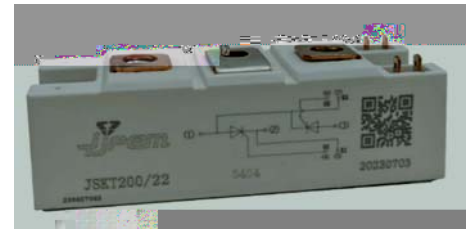




JSKT200&JSKH200

Description

- 1) A package of series of two chips.
- 2) With high thermal conductivity DBC as the insulation.
- 3) Welding by vacuum welding technology, which provide high reliability.



Typical Application

DC motor control, temperature control and light control system.

Absolute Maximum Ratings (Packaged into modules, unless otherwise specified, $T_{CASE}=25$)

Parameter	Test Conditions	Symbol	Values		Unit
			20	22	
Operating junction temperature range		T_j	-40~125		
Storage temperature range		T_{stg}	-40~125		
Repetitive peak off-state voltage	$T_j=25$	V_{DRM}	2000	2200	V
Repetitive peak reverse voltage	$T_j=25$	V_{RRM}	2000	2200	V
Non-repetitive peak off-state voltage	$T_j=25$	V_{DSM}	2100	2300	V
Non-repetitive peak reverse voltage	$T_j=25$	V_{RSM}	2100	2300	V
Average on-state current	$T_C=85$	$I_{T(AV)}/I_{F(AV)}$	200		A
Peak on-state surge current	$t_P=10ms$ $V_R=0.6V_{RRM}$	I_{TSM}/I_{FSM}	5400		A
I^2t value for fusing	$t_P=10ms$ $V_R=0.6V_{RRM}$	I^2t	145000		A^2s
Critical rate of rise of on-state current	$I_G=2 \times I_{GT}$	di/dt	150		$A/\mu s$
Insulation voltage	A.C 50Hz(1s/1min)	V_{ISO}	3600/3000		V

Electrical Characteristics (Packaged into modules, unless otherwise specified, $T_{CASE}=25$)

Parameter	Test Conditions	Symbol	Values	Unit
Peak on-state voltage	$I_T=600A$ $t_P=380\mu s$	V_{TM}	1.8	V
Threshold voltage	$T_j=125$	V_{TO}	0.9	V
Dynamic resistance	$T_j=125$	R_d	1.6	m



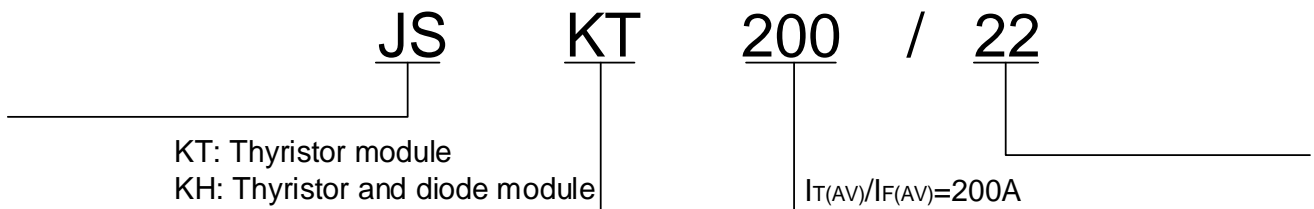
Repetitive peak off-state current	$V_D=V_{DRM}$	I_{DRM1}	100	μA
	$T_C=25$			
	$T_C=125$	I_{DRM2}	60	mA
Repetitive peak reverse current	$V_R=V_{RRM}$	I_{RRM1}	100	μA
	$T_C=25$			
	$T_C=125$	I_{RRM2}	60	mA
Triggering gate current	$V_D=12V R_L=30$	I_{GT}	20-120	mA
Holding current	$I_T=1A$	I_H		



Instructions and Precautions

- 1) There is no severe vibration and shock in operating environment, and there should be no impurity and atmosphere which may corrode metal and damage the insulation in the air-dielectric.
- 2) The operating condition of the product can't out of range of the above parameters.
- 3) When the product is installed on the radiator, the radiator's surface should be confirmed flat, smooth, wipe clean with alcohol, and coated evenly with a layer of thermal grease which thickness is moderate on the contact surface between product and radiator. When the module is fastened on the surface of the radiator, the M5 or M6 screws and spring washers are used and fastened with 5NM torque. After the module is operated 1 hour, all screws must be refastened.
- 4) The connection with the main electrode of module can use copper, welding, socket and so on. The contact surface should be smooth and flat, which make good contact. While the connection with the control electrode of module is installed, attention should be paid to the corresponding connection of each pin. After the completion of the connection, do not plug and pull out the lead of the control electrode freely.

Ordering Information



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