

JSKT060/JSKH060

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
			12	16	18	
Operating junction temperature range		T_J				

Non-repetitive peak off-state voltage	$T_J=25$	V_{DSM}	1300	1700	1900	V
Non-repetitive peak reverse voltage	$T_J=25$	V_{RSM}	1300	1700	1900	V
Average on-state current	$T_C=85$	$I_{T(AV)}/I_{F(AV)}$	50			A
Peak on-state surge current	$t_P=10ms$ $V_R=0.6V_{RRM}$	I_{TSM}/I_{FSM}	1000			A
I^2t value for fusing	$t_P=10ms$ $V_R=0.6V_{RRM}$	I^2t	5000			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	$I_T=150A$ $t_P=380\mu s$	V_{TM}	1.8	V
Threshold voltage	$T_J=125$	V_{TO}	0.95	V
Dynamic resistance	$T_J=125$	R_d	3.7	m

$$V_D=V_{DRM}$$

Repetitive peak off-state current	$T_C=25$	I_{DRM1}	100	μA
	$T_C=125$	I_{DRM2}	20	mA



Mechanical Characteristics

Module size	93mm×21mm
Module height	30mm
Terminal distance of (1) / (2) / (3)	20mm
Mounting torque(M5)	5±15%Nm
Terminal torque(M5)	3±15%Nm





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.

FIG.3:Forward characteristics
(per thyristor or diode)

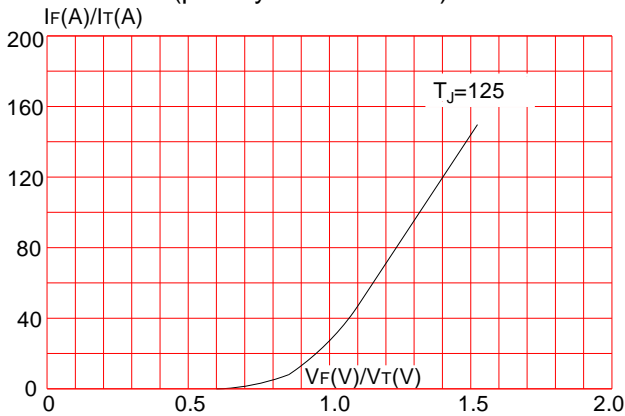
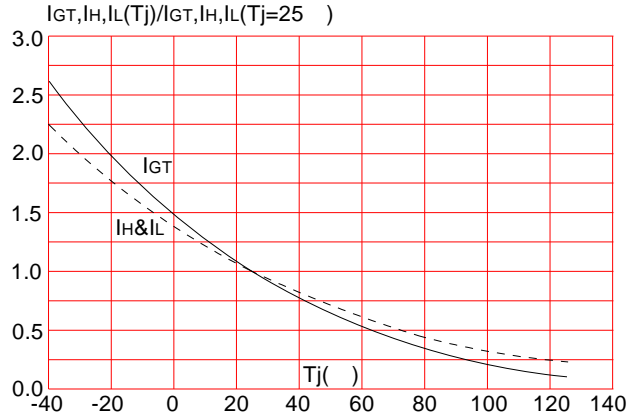


FIG.4: Relative variations of gate trigger current, holding current and latching current versus junction temperature



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