

Product Description

- MOSFET Output
- Low Impedance
- 4-32VDC Control Input
- Load Current: 10A-50A
- Internal Over-voltage Protection
- LED Indicator
- RoHS Compliant





Ordering Information





50: 50VDC

60: 60VDC

100: 100VDC

200: 200VDC

D

DC Control

40

Load Current 10: 10Amp 20: 20Amp 40: 40Amp

50: 50Amp



-L

LED Indicator

Customized Code 045: Quick Connection 117: Quick Connection 198: Quick Connection

(1) Part numbers available are listed in the table below.

		30VDC	50VDC	60VDC	100VDC	200VDC
	10A			KSJM60D10-L	1	KSJM200D10-L
1	20A			KSJM60D20-L	KSJM100D20-L	
	40A	 	KSJM50D40-L		T	
	50A	KSJM30D50-L	r		T	

General Specifications							
Input Specifications (Ta=25°C)							
Control Voltage Range	4-32VDC						
Must Turn-on Voltage	4VDC						
Must Turn-off Voltage	1VDC						
Maximum Input Current	25mA @32VDC						
Maximum Reverse Voltage	32VDC						



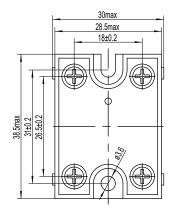
General Specifications

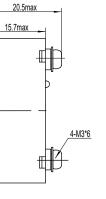
Ordering Information	KSJM30D50-L	KSJM50D40-L	KSJM60D10-L	KSJM60D20-L	KSJM100D20-L	KSJM200D10-I	
Transistor Voltage (VDC)	55	75	100	100	150	250	
Load Voltage Range (VDC)	0-24	0-36	0-48	0-48	0-75	0-120	
TVS Breakdown Voltage Scope (V)	37.1-41	53.2-58.8	64.6-71.4	64.6-71.4	105-116	190-210	
Maximum Load Current (A)	50	40	10	20	20	10	
Maximum Surge Current (Apk.@10ms)	150	120	30	30	60	30	
Maximum On-State Resistance (m Ω)	4.2	12	14	14	13	60	
Maximum Off-State Leakage Current @Rated Load Voltage (mA)	urrent 0.1						
Minimum Load Current (mA)	2						
Maximum Turn-on Time (ms)	0.3						
_Maximum_Turn-off_Time_(ms)	0.3						
General Specifications (Ta=25°C)							
Dielectric Strength (50/60Hz)	Input/Output			2500Vrms			
	Input, out	put/Base	2000Vrms				
Minimum Insulation Resistance (@500VI	1000ΜΩ						
Ambient Temperature Range	-30°C ~ +80°C						
Storage Temperature Range	-30°C ~ +100°C						
Weight (Typical)	35g						

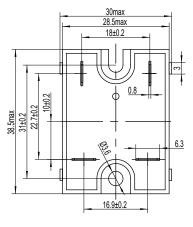
Applications

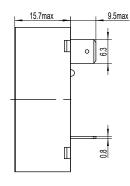
Control heating, DC power supplies, electromechanical valves, motors, medical equipment, and etc.

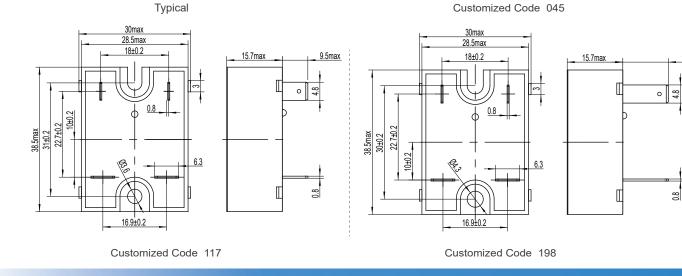
Outline Dimensions











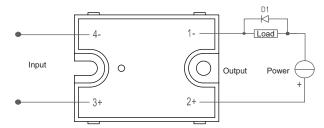
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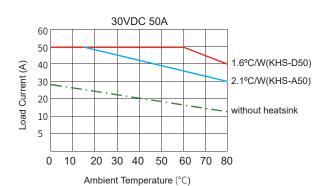
12max



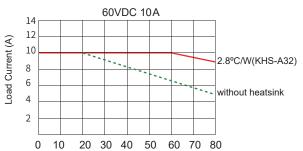
Wiring Diagram



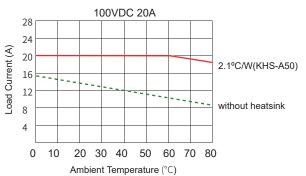
When the relay is used for inductive load control, please be sure to use a suppression circuit, just like the drawing above. Both load terminals are inverse parallelled with a fly-wheel diode D1. D1: Fast Recovery Diode

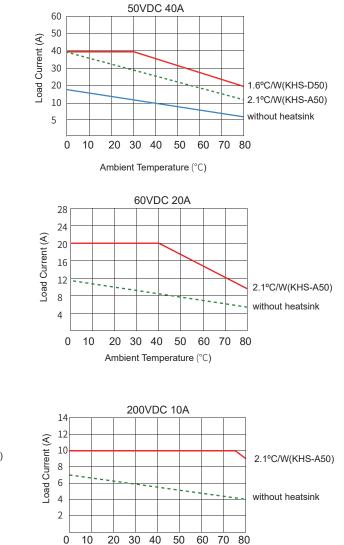


Thermal Derating Curve



Ambient Temperature (°C)



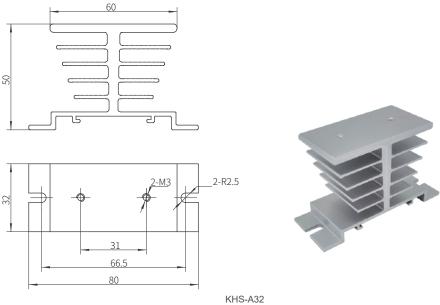


Ambient Temperature (°C)

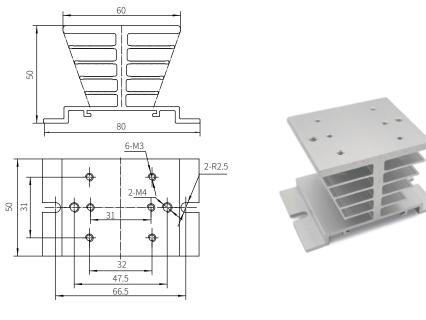
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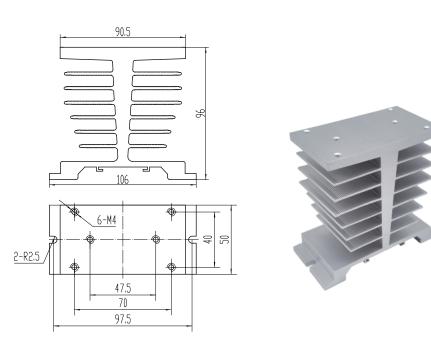


(Note:The recommended mounting hole size is 68mm)



KHS-A50 (Note: The recommended mounting hole size is 68mm)





KHS-D50

General Notes

Autoc

1. Relay must be mounted to proper sized beat sink based on thermal curves. Thermal grease or a thermal pad must be used between relay and heat sink and be torqued down to (13-15)/(1.5-1.7) in-lb/Nm.

2. When connection wiring to SSR, please ensure screws are torqued down properly. Recommended torque for input screw is (13-15)/(1.5-1.7) in-lb/Nm, output screw is (13-15)/(1.5-1.7) in-lb/Nm.

3. SSR's carrying load capacity is related to the operation ambient temperature and heat dissipation condition, please refer to the Thermal Derating Curve for derating.

4.Capacitive load will produce very high surge current at the moment of conduction, which may lead to the damage of solid state relay due to the excessive surge current. Therefore, if the actual load is capacitive, or the load has parallelled large capacitance, it is strongly recommended that NTC should be connected in series in the load loop to suppress surge current in order to avoid damage to the product.

Warnings

- 1. The product's side panels may be hot, allow the product to cool before touching.
- 2. Disconnect all power before installing or working with this equipment.
- 3. Verify all connections and replace all covers before turning on power.