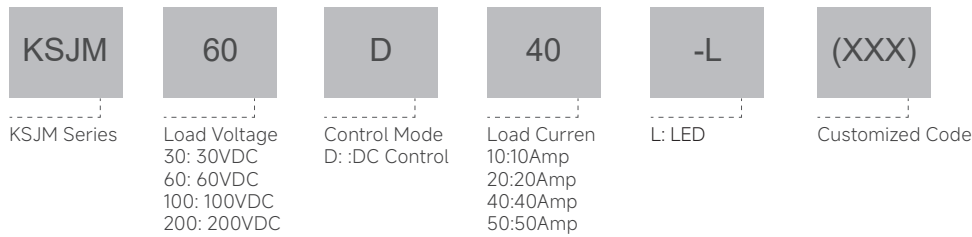


Product Description

- ◆ MOSFET Output
- ◆ Low Impedance
- ◆ Control Voltage : 4~32VDC
- ◆ Internal Over-voltage Protection
- ◆ Protective cover KPC-2A (Optional)
- ◆ Panel Mount
- ◆ LED Indicator
- ◆ RoHS Compliant



Product Selection



Available Part Numbers

Control Mode	10A	20A	40A	50A
30VDC				KSJM30D50-L
60VDC	KSJM60D10-L		KSJM60D40-L	
100VDC		KSJM100D20-L		
200VDC	KSJM200D10-L			

Technical 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

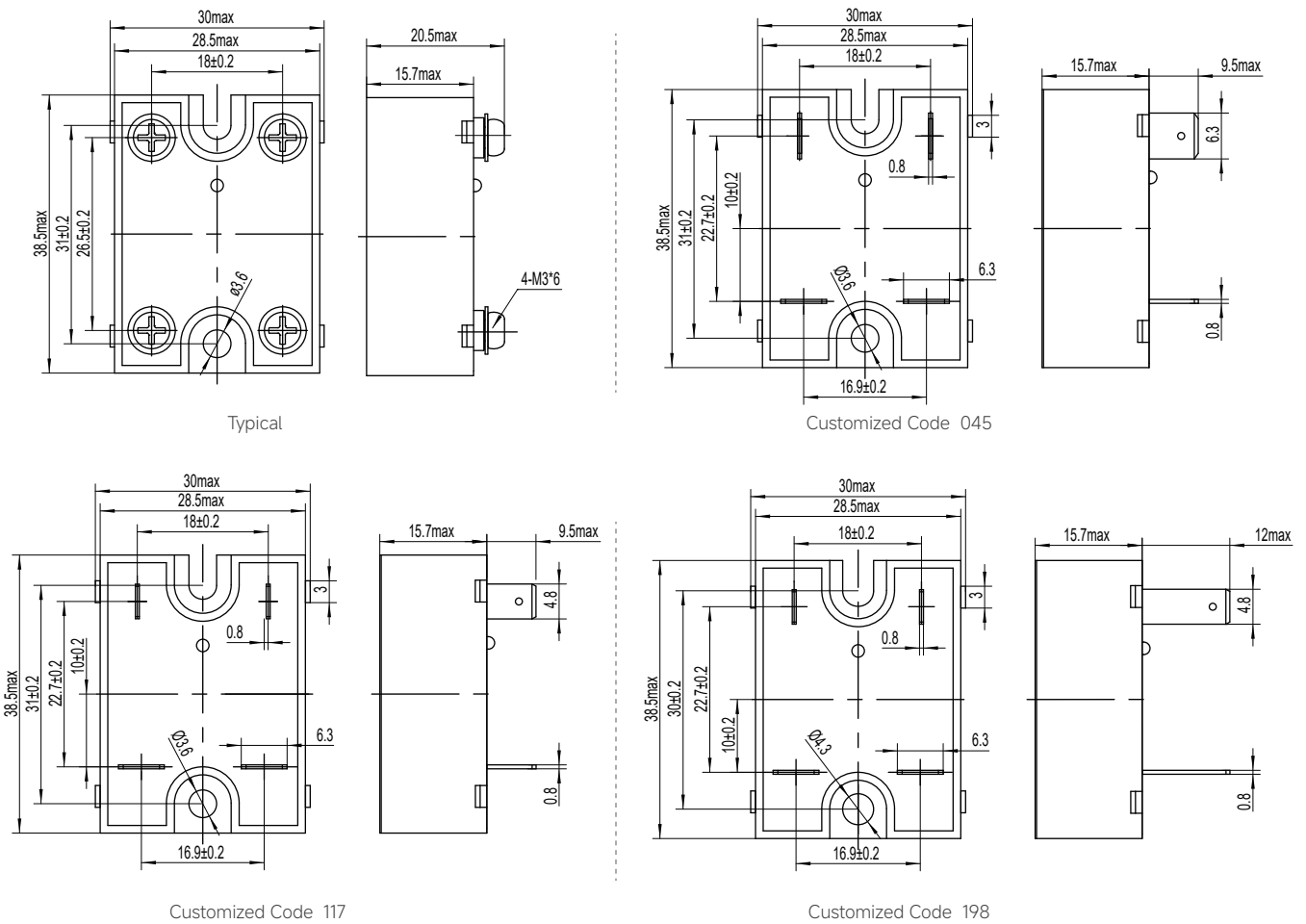
Output Specifications (Ta=25°C)					
Ordering Information	KSJM30D50-L	KSJM60D10-L	KSJM60D40-L	KSJM100D20-L	KSJM200D10-L
Transistor Voltage (VDC)	55	100	100	150	250
Load Voltage Range (VDC)	0-24	0-48	0-48	0-75	0-120
TVS Breakdown Voltage Range (V)	37.1-41	64.6-71.4	64.6-71.4	105-116	190-210
Maximum Load Current (A)	50	10	40	20	10
Maximum Surge Current (Apk,@10ms)	150	30	120	60	30
Maximum On-State Resistance (mΩ)	4.2	14	14	13	60
Maximum Off-State Leakage Current (mA)	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,Output/Base	2000Vrms
Minimum Insulation Resistance (@500VDC)		1000mΩ
Ambient Temperature Range		-30°C~+80°C
Storage Temperature Range		-30°C~+100°C
Weight (Typical)		35g

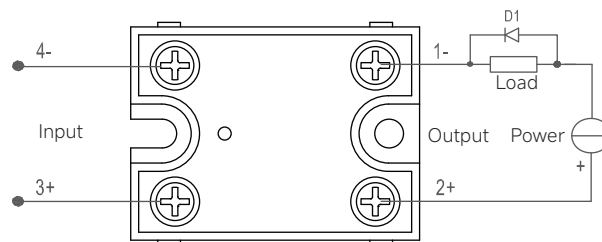
Applications

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

Outline Dimensions

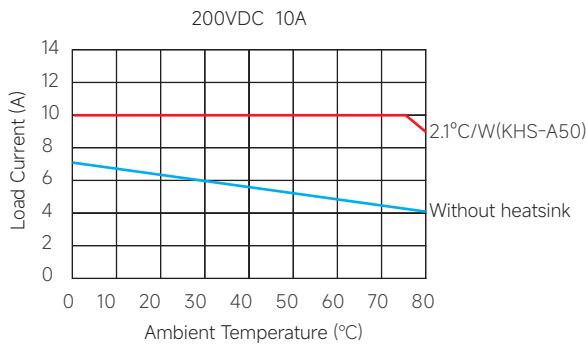
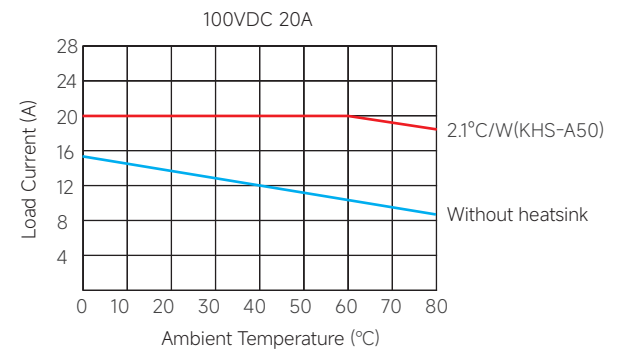
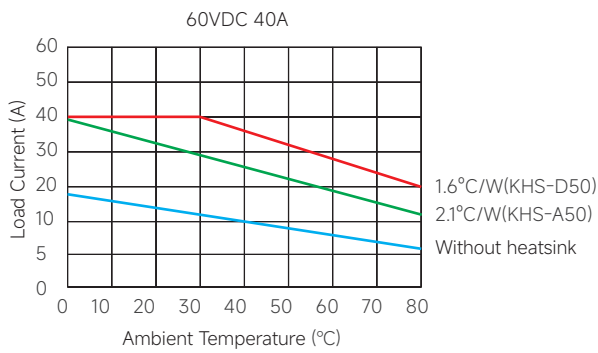
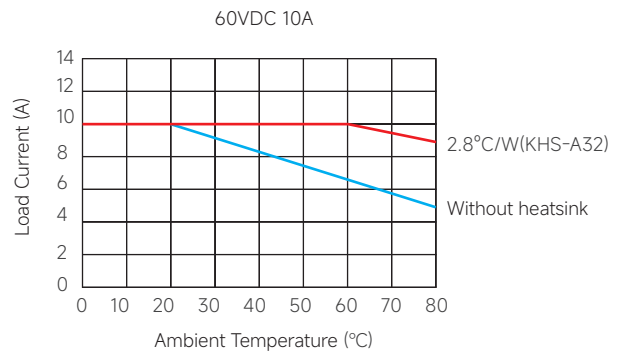
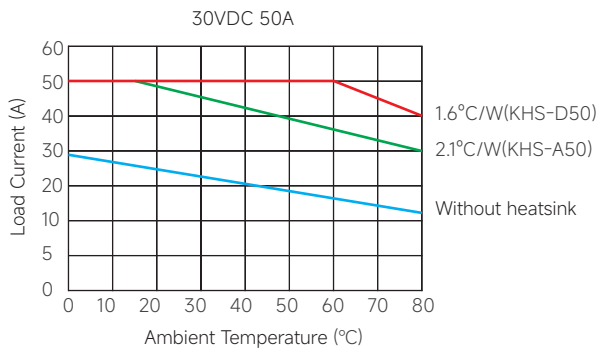


Wiring Diagram



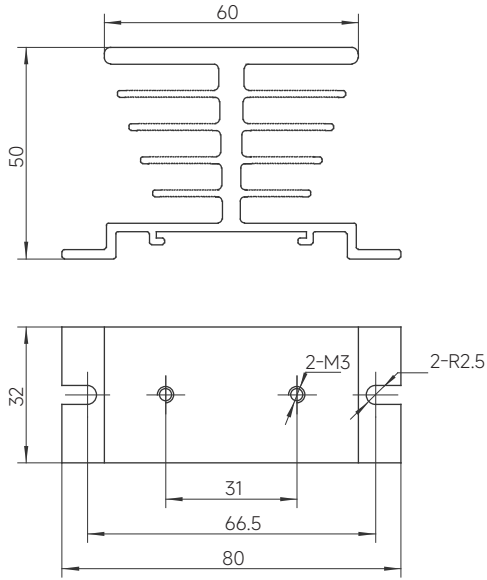
When the relay is used for inductive load control, please be sure to use a suppression circuit, just like the drawing above. Both load terminals are inverse parallelled with a fly-wheel diode D1.
D1: Fast Recovery Diode

Thermal Derating Curve



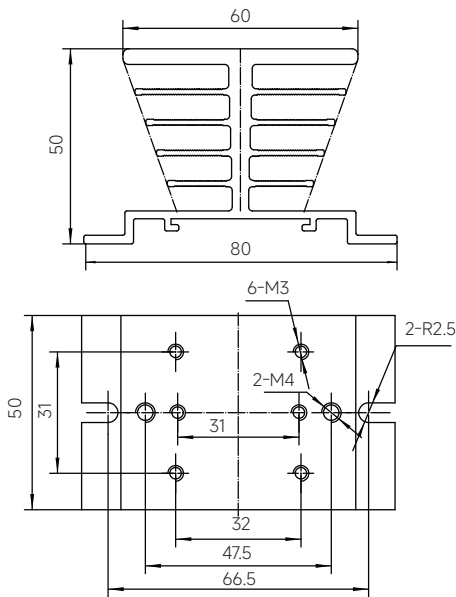
Note: The curve above shows the heatsink capability under the worst case (100% continuous operation) for a solid state relay. If your application involves intermittent operation, please contact us with your actual operating conditions (load current, on/off time, ambient temperature, etc.), and we will recommend the most suitable solution for you.

The above temperature curve is configured with radiator models as follows:



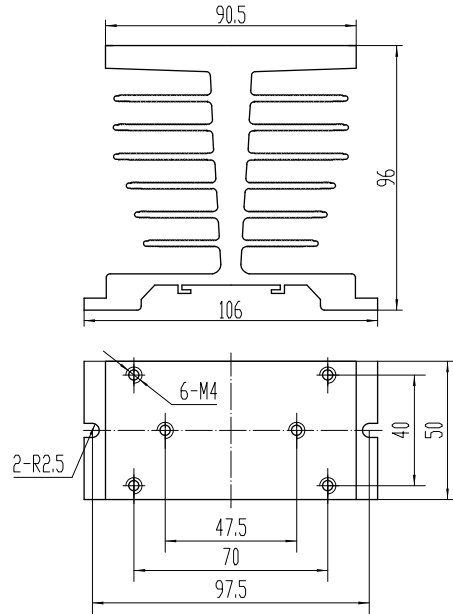
KHS-A32

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



KHS-A50

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



KHS-D50

General Notes

1. Relay must be mounted to proper sized heat 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 paralleled 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.