

- ◆ MOSFET or IGBT Output
- ◆ Low Impedance
- ◆ 4-32VDC Control Input
- ◆ Load Current:7A-100A
- ◆ Dielectric Strength: 2500Vrms
- ◆ Internal Over-voltage Protection
- ◆ LED Indicator
- ◆ RoHS Compliant



Ordering Information

<b>KSJ</b>	<b>50</b>	<b>D</b>	<b>40</b>	<b>-L</b>	<b>(XXX)</b>
KSJ Series (1)	Load Voltage 30: 30VDC 50: 50VDC 60: 60VDC 100: 100VDC 200: 200VDC 400: 400VDC 600: 600VDC 1200: 1200VDC	DC Control	Load Current 7: 7Amp 10: 10Amp 20: 20Amp 25: 25Amp 40: 40Amp 50: 50Amp 80: 80Amp 100: 100Amp	LED Indicator	Customized Code

Note (1): The part number selection is subject to the following list.

	30VDC	50VDC	60VDC	100VDC	200VDC	400VDC	600VDC	1200VDC
7A			KSJ60D7-L					
10A					KSJ200D10-L			
20A				KSJ100D20-L	KSJ200D20-L			
25A						KSJ400D25-L	KSJ600D25-L	KSJ1200D25-L
40A		KSJ50D40-L		KSJ100D40-L	KSJ200D40-L			
50A	KSJ30D50-L		KSJ60D50-L				KSJ600D50-L	KSJ1200D50-L
80A		KSJ50D80-L		KSJ100D80-L				
100A	KSJ30D100-L							

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**

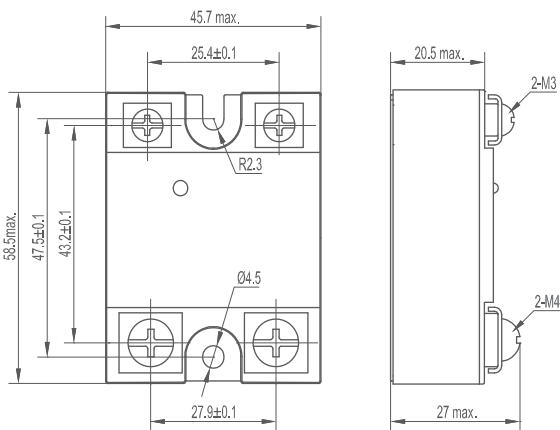
Output Specifications (Ta=25°C)																		
	KSJ30D□-L		KSJ50D□-L		KSJ60D□-L		KSJ100D□-L			KSJ200D□-L			KSJ400D25-L		KSJ600D□-L		KSJ1200D□-L	
	50	100	40	80	7	50	20	40	80	100	10	20	40		25	50	25	50
Load Voltage Range (VDC)	0-24		0-36		0-48		0-75			0-120			0-300		0-500		0-650	
Maximum Load Current (A)	50	100	40	80	7	50	20	40	80	100	10	20	40	25	25	50	25	50
Maximum Surge Current (Apk.@10ms)	150	250	120	200	30	150	60	120	200	250	30	60	120	150	150	300	150	300
Maximum On-State Resistance (mΩ)	4.2	2.1	12	6	14	7	13	13	6.5	6.5	60	30	30					
Maximum On-State Voltage Drop@Rated Current (V)														1.75				
Maximum Off-State Leakage Current@Rated Load Voltage (mA)											0.1		0.5					
Minimum Load Current (mA)											2		2					
Maximum Turn-On Time (ms)											0.1		1					
Maximum Turn-Off Time (ms)											0.1		1					

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	2500Vrms
	Input, output/Base	2500Vrms
Minimum Insulation Resistance (@500VDC)	1000MΩ	
Ambient Temperature Range	-30°C ~ +80°C	
Storage Temperature Range	-30°C ~ +100°C	
Weight (Typical)	100g	

**Applications**

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

**Outline Dimensions/Wiring Diagram**

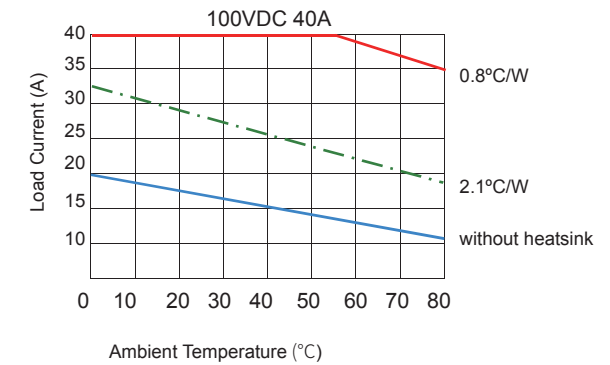
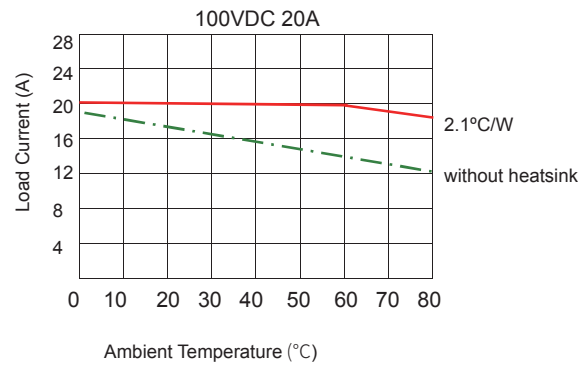
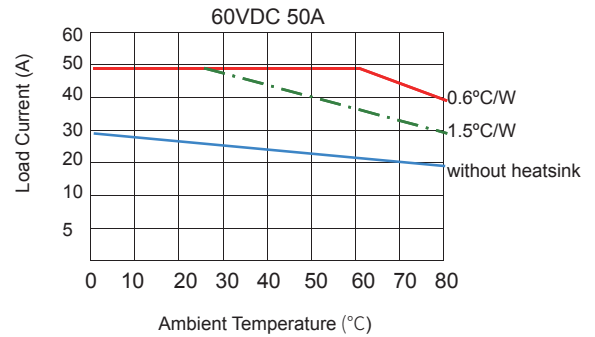
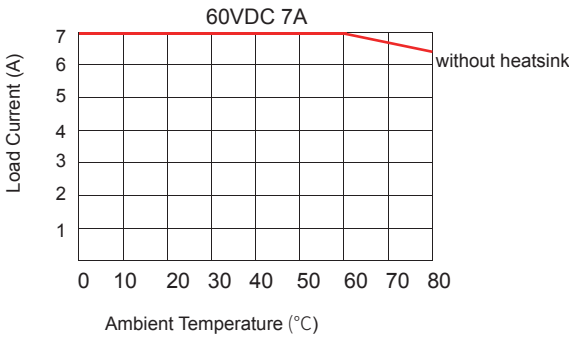
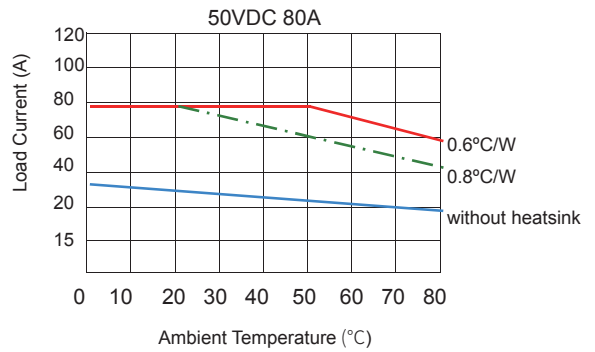
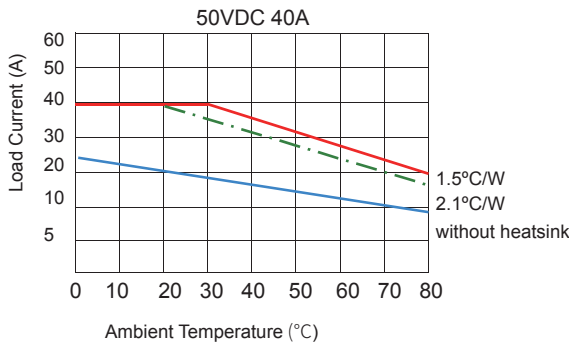
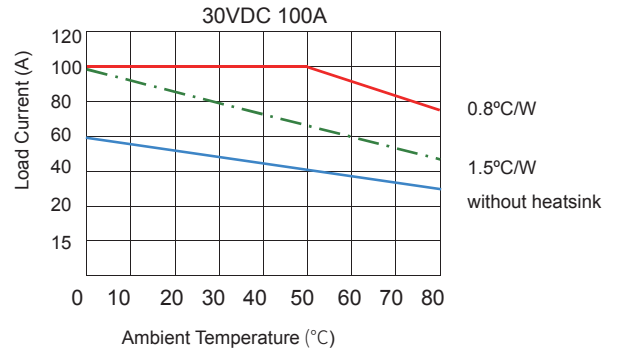
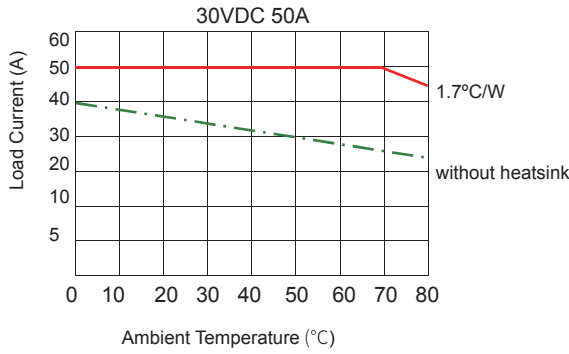


Outline Dimensions

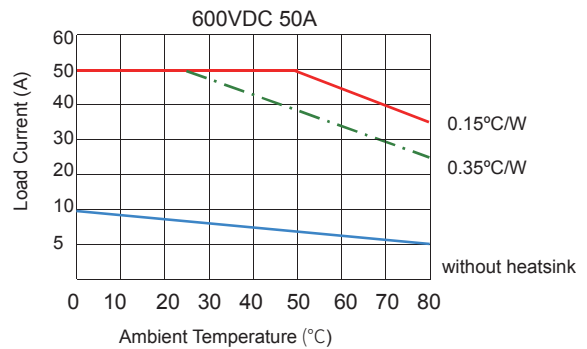
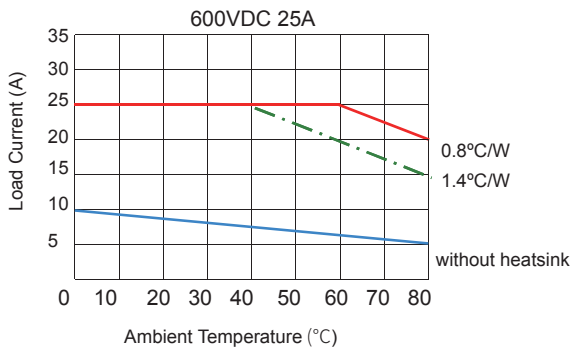
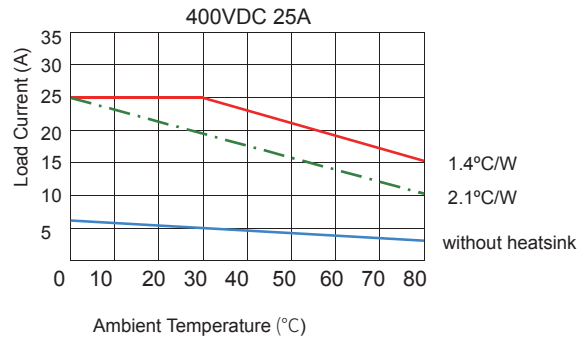
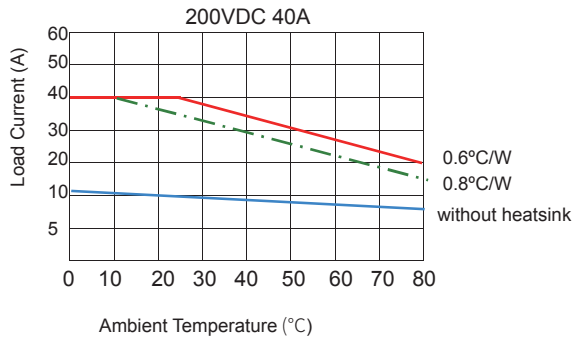
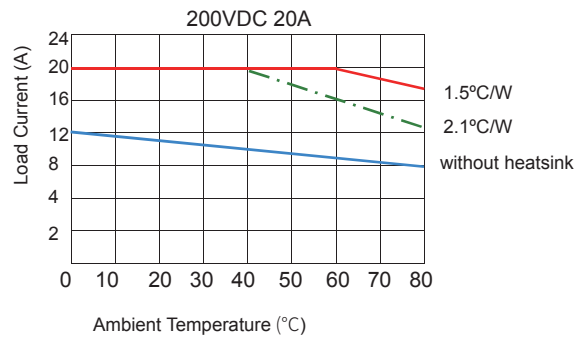
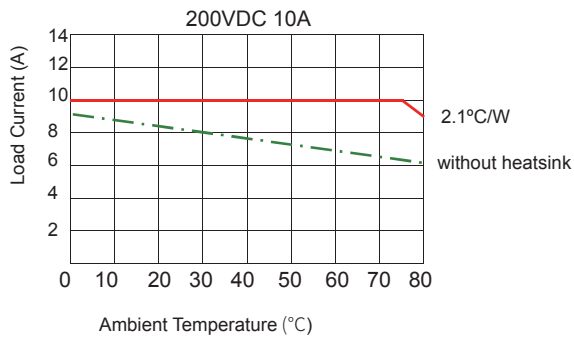
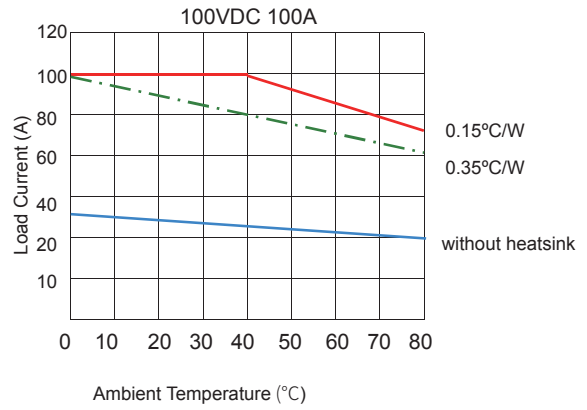
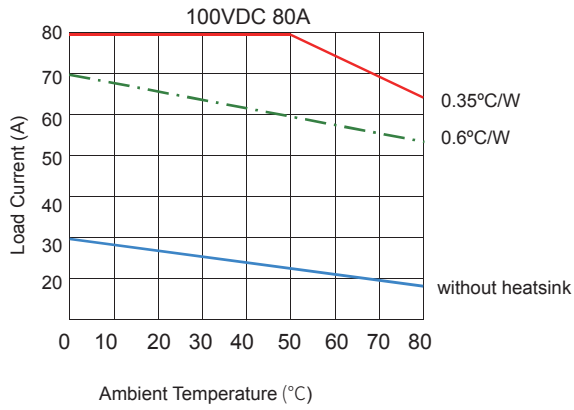
Wiring Diagram

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

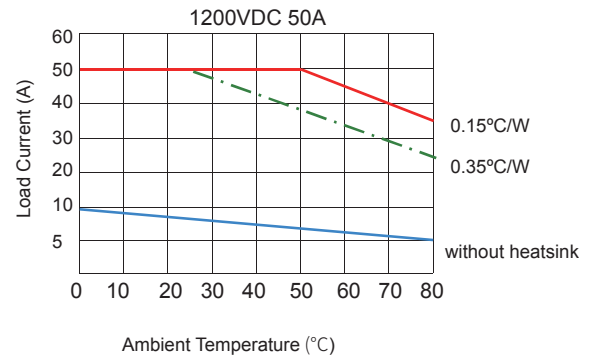
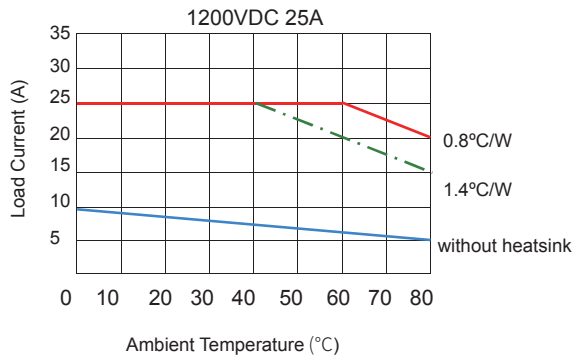
**Thermal Derating Curve**



**Thermal Derating Curve**



Thermal Derating Curve



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 18-20/2.0-2.2 in-lb/N·m.
2. When connection wiring to SSR please ensure screws are torqued down properly (input 13-15/1.5-1.7in/lb/N·m, output 18-20/2.0-2.2 in-lb/N·m).
3. When Ambient temperature is above 25°C see thermal derating curve.

Agency Approvals (Certification)

