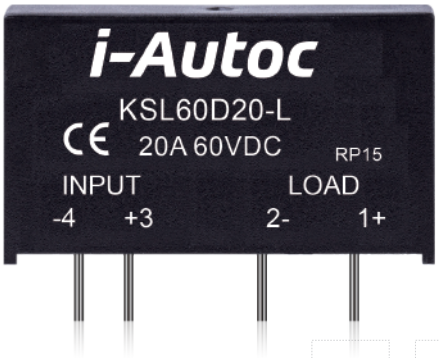
Product Description

- MOSFET Output
- Control Voltage: 3-10VDC, 10-28VDC
- Load Voltage: 60VDC, 100VDC, 200VDC, 400VDC
- Load Current: 3A, 5A, 10A, 20A
- Dielectric Strength: 2500Vrms
- RoHS Compliant



Ordering Information

KSL	60	D	20	-L	(XXX)
KSI Series (1)	Load Voltage 60: 0-50VDC 100: 0-75VDC 200: 0-125VDC 400: 0-300VDC	DC Control	Load Current 3: 3Amp 5: 5Amp 10: 10Amp 20: 20Amp	Control Voltage L: 3-10VDC H: 10-28VDC	Customized Code

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

Information	3A	5A	10A	20A
L	KSL400D3-L	KSL200D5-L	KSL100D10-L	KSL60D20-L
H	KSL400D3-H	KSL200D5-H	KSL100D10-H	KSL60D20-H

General Specifications

Input Specifications (Ta=25°C)		
Control Voltage Range	L	3-10VDC
	H	10-28VDC
Must Turn-On Voltage	L	3VDC
	H	10VDC
Must Turn-Off Voltage	1VDC	
Maximum Input Current	25mA	

Output Specifications (Ta=25°C)		
Load Voltage Range	60	0-50VDC
	100	0-75VDC
	200	0-125VDC
	400	0-300VDC
MOSFET Maximum Transient Overvoltage	60	100Vpk
	100	150Vpk
	200	250Vpk
	400	600Vpk
TVS Protection Voltage (Typical)	60	64.6~71.4VDC
	100	105~116VDC
	200	190~210VDC
	400	418~462VDC

General Specifications

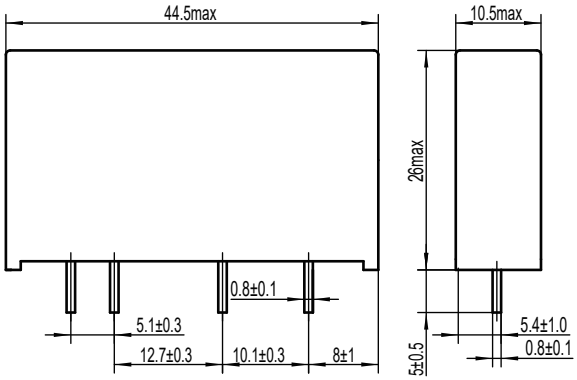
Maximum 1 Cycle Surge Current (50Hz)	3A		15A
	5A		25A
	10A		50A
	20A		100A
Maximum Turn-On Time	6ms		
Maximum Turn-Off Time	1ms		
Maximum Off-State Leakage Current@Rated Load Voltage	0.1mA		
On-state Resistance	3A	Tj=25℃(Typical)	135mΩ
		Tj=125℃(Maximum)	375mΩ
	5A	Tj=25℃(Typical)	60mΩ
		Tj=125℃(Maximum)	150mΩ
	10A	Tj=25℃(Typical)	11mΩ
		Tj=125℃(Maximum)	38mΩ
	20A	Tj=25℃(Typical)	3.7mΩ
		Tj=125℃(Maximum)	10mΩ

General Specifications (Ta=25°C)	
Dielectric Strength (50/60Hz)	2500Vrms
Minimum Insulation Resistance (@500VDC)	1000MΩ
Ambient Temperature Range	-30°C ～ +80°C
Storage Temperature Range	-30°C ～ +100°C
Weight (Typical)	20g

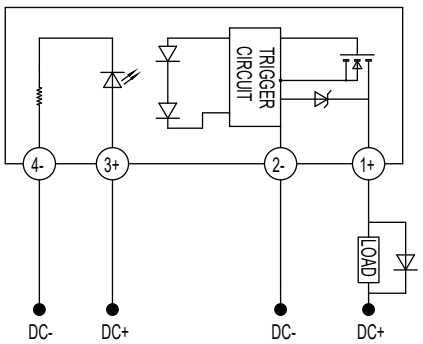
Applications

Suitable for DC motors, DC power supplies, electro-mechanical devices, and etc.

Outline Dimensions

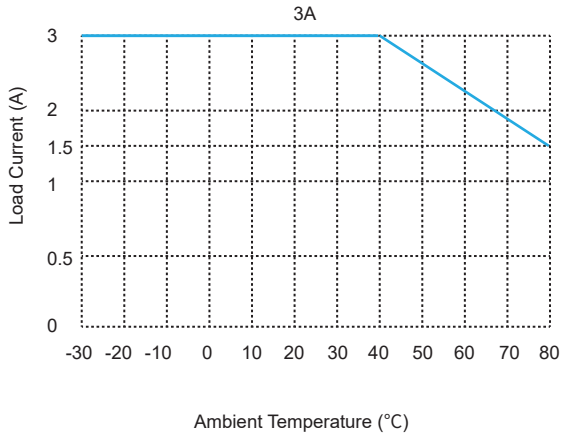


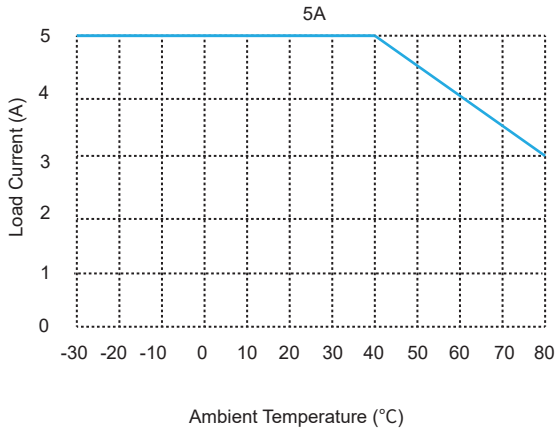
Outline Dimensions

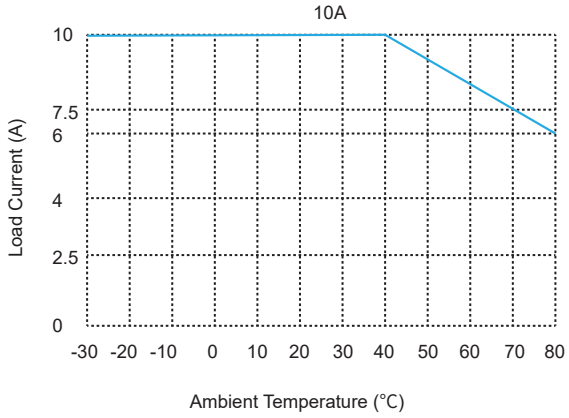


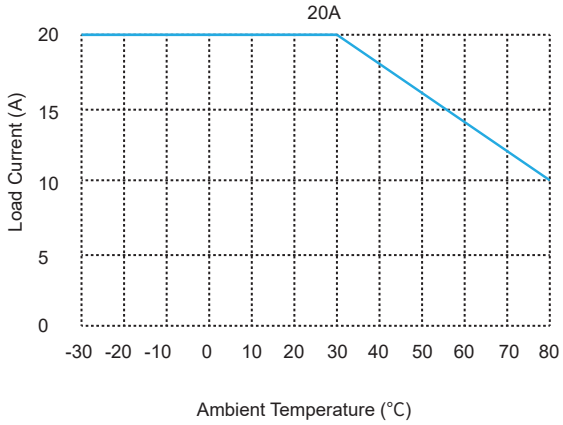
Wiring Diagram

Thermal Derating Curve









General Notes

1. Soldering must be finished within 10 seconds at 260℃, or finished within 5 seconds at 350℃. Otherwise, it may cause damage to the relay.
2. Terminal polarity must be observed. Otherwise, it may cause damage to the relay.
3. When ambient temperature is above 25℃, the maximum load current decreases. See thermal derating curve.
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.