

Product Description

- Load Current: 0.1A~20A
- Rated Voltage: 60VDC, 100VDC, 200VDC, 400VDC
- Control Voltage: 3~10VDC, 10~28VDC
- Dielectric Strength: 2500Vrms or 4000Vrms
- RoHS Compliant
- Transistor Output or MOSFET Output⁽¹⁾

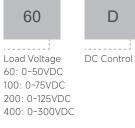


В

Note: (1) KSLE60D3 series are transistor output, others are MOSFET output.

Product Selection







Load Current 3: 3Amp 5: 5Amp 10: 10Amp 20: 20Amp

20



Control Voltage L:3-10VDC H:10-28VDC



CE

Output Type Customized Code B: Normally Closed Output None: Normally Open Output

Available Part Numbers

Control Mode	3A	5A	10A	20A
	KSLE60D3-L		KSLE60D10-L	KSLE60D20-L
L	KSLE400D3-L	KSLE200D5-L	KSLE100D10-L	
	KSLE60D3-LB			
Н	KSLE60D3-H		KSLE60D10-H	,
	KSLE400D3-H	KSLE200D5-H	KSLE60D20-H	
	KSLE60D3-HB		KSLE100D10-H	1

Technical Specifications

Input Specifications (Ta=25°C)					
Control Voltage Range	L		3-10VDC		
	H		10-28VDC		
Must Turn-on Voltage	KSLEL/H Series	L	3VDC		
	, NOLEL/H Series	Н	10VDC		
	KSLELB/HB Series	L	1VDC		
	NOLELD/ITD Series	Н	1VDC		
Must Turn-off Voltage		L	1VDC		
	KSLEL/H Series	Н	1VDC		
		L	3VDC		
	KSLELB/HB Series	Н	10VDC		
Maximum Input Current	1		20mA		

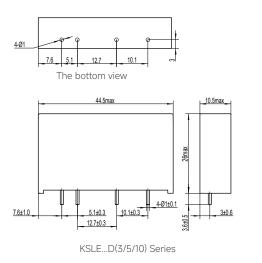


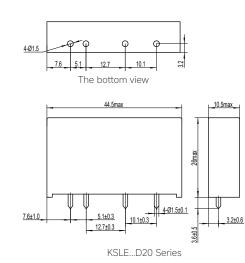


Dutput Specifications (Ta=25°C)		100Vpk
	KSLE60D(10/20) Series	
MOSFET Maximum Transient Overvoltage	KSLE100D10 Series	150Vpk
	KSLE200D5 Series	250Vpk
	KSLE400D3 Series	650Vpk
Transistor Maximum Transient Overvoltage	KSLE60D3 Series	80Vpk
	KSLE60D Series	0~50VDC
.oad Voltage Range	KSLE100D Series	0~75VDC
	KSLE200D Series	0~125VDC
	KSLE400D Series	0~300VDC
	KSLE60D Series	64.6~71.4VDC
VS Breakdown Voltage Range	KSLE100D Series	105~116VDC
vs breakdown vollage kange	KSLE200D Series	190~210VDC
	KSLE400D Series	418~462VDC
	KSLE400D3 Series	15A (@10ms)
	KSLE200D5 Series	25A (@10ms)
1aximum Surge Current	KSLE(100/60)D10 Series	50A (@10ms)
	KSLE60D20 Series	100A (@10ms)
	KSLE60D3 Series	5A (@1s)
Aaximum Turn-on Time		1ms
Aaximum Turn-off Time		1ms
	Transistor output	1mA
Aaximum Off-State Leakage Current (@Rated Voltage)	MOSFE Output	0.1mA
/		200mΩ (@Tj=25°C, Typical)
	KSLE400D3 Series	400mΩ (@Tj=125°C, Maximum)
		60mΩ (@Tj=25°C, Typical)
	KSLE200D5 Series	150mΩ (@Tj=125°C, Maximum)
		11mΩ (@Tj=25°C, Typical)
Dn-state Resistance	KSLE100D10 Series	38mΩ (@Tj=125°C, Maximum)
	 	10mΩ (@Tj=25°C, Typical)
	KSLE60D10 Series	30mΩ (@Tj=125°C, Maximum)
		4mΩ (@Tj=25°C, Typical)
	KSLE60D20 Series	10mΩ (@Tj=125°C, Maximum)
Aaximum On-State Voltage Drop (@Rated Current)	KSLE60D3 Series	1.5VDC

General Specifications (Ta=25°C)		
Dielectric Strength (Input/Output, 50/60Hz)	Transistor output	4000Vrms
Dielectric Strength (input/Output, 50/00Hz)	MOSFE Output	2500Vrms
Minimum Insulation Resistance (@500VDC)		 1000MΩ (@500VDC)
Ambient Temperature Range		-30°C ∼ + 80°C
Storage Temperature Range		 -30°C ~ + 100°C
Weight (Typical)		 20g

Outline Dimensions





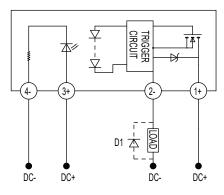
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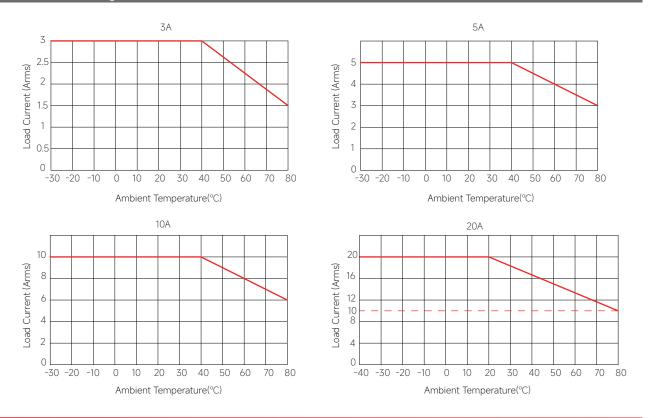
Wiring Diagram



Note: When the relay is used for controlling inductive loads, please ensure that a suppression circuit is used, as shown in the drawing above. Both load terminals are inversely paralleled with a flywheel diode (D1).

D1: Fast Recovery Diode

Thermal Derating Curve



General Notes

- 1. Soldering must be finished within 10 seconds at 260°C, or finished within 5 seconds at 350°C. 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°C, 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

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.

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