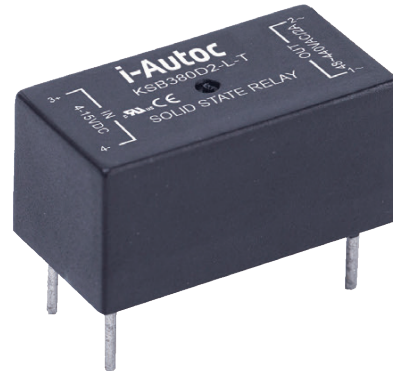


- ◆ Zero crossing or Random-on switching
- ◆ TRIAC Output
- ◆ Control Voltage: 4-15VDC or 15-32VDC
- ◆ Load Current: 2A or 3A
- ◆ Dielectric Strength: 4000Vrms
- ◆ Internal RC Absorption Circuit (Optional)
- ◆ RoHS Compliant



### Ordering Information

KSB	240	D	3	R	-L	N	-T	(XXX)
KSB Series	Load Voltage 240: 240VAC 380: 380VAC	DC Control	Load Current 2: 2Amp 3: 3Amp	Switching Mode Blank: Zero Crossing R: Random-on	Control Voltage L: 4-15VDC Input H: 15-32VDC Input	Blank: with RC N: without RC	Blank: Standard T: T Type Footprint	Customized Code

### General Specifications

Input Specifications (Ta=25°C)		
Control Voltage Range	L	4-15VDC
	H	15-32VDC
Must Turn-On Voltage	L	4VDC
	H	15VDC
Must Turn-Off Voltage		1VDC
Maximum Input Current	L	40mA @15VDC
	H	25mA @32VDC

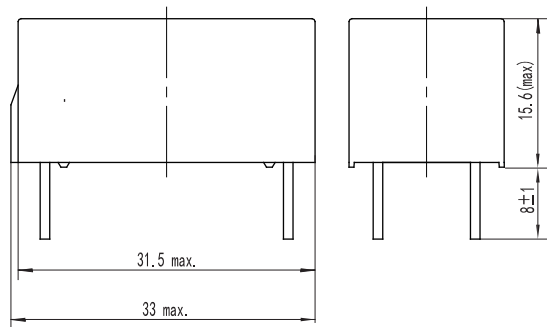
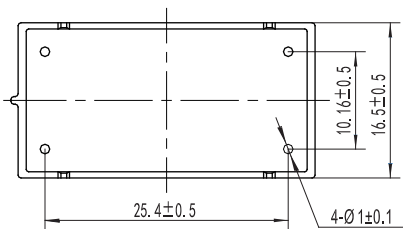
Output Specifications (Ta=25°C)		
Load Voltage Range	240VAC	24-280VAC
	380VAC	24-440VAC
Maximum Transient Overvoltage	240VAC	600Vpk
	380VAC	800Vpk
Maximum Off-State Leakage Current @Rated Load Voltage	without RC	0.1mA
	with RC	5mA
Minimum Off-State dv/dt@Maximum Rated Voltage		200V/μs
Load Current Range	2A	0.1-2A
	3A	0.1-3A
Maximum 1 Cycle Surge Current (50Hz)	2A	35Apk
	3A	80Apk
Maximum I <sup>2</sup> t for Fusing (10ms)	2A	6.1A <sup>2</sup> s
	3A	32A <sup>2</sup> s

Maximum On-State Voltage Drop@Rated Current	1.5Vrms
Maximum Turn-On Time	Zero Crossing : 1/2cycle+1ms,Random-on:1ms
Maximum Turn-Off Time	1/2cycle+1ms
Operational Frequency Range	47-63Hz
Minimum Power Factor (@ Maximum load)	0.5
<b>General Specifications (Ta=25°C)</b>	
Dielectric Strength (50/60Hz)	4000Vrms
Minimum Insulation Resistance (@500VDC)	1000MΩ
Ambient Temperature Range	-30°C ~ +80 °C
Storage Temperature Range	-30°C ~ +100 °C
Weight (Typical)	15g

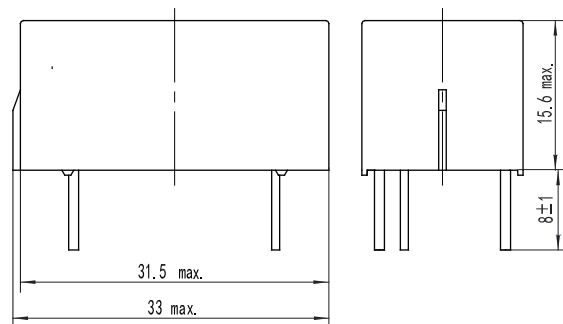
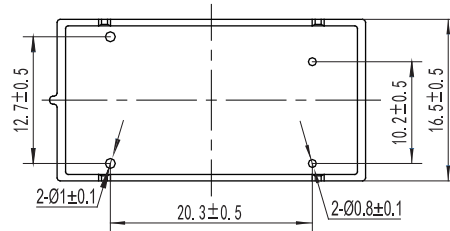
### Applications

Suitable for pumps, valve control, motor control, and ect.

### Outline Dimensions

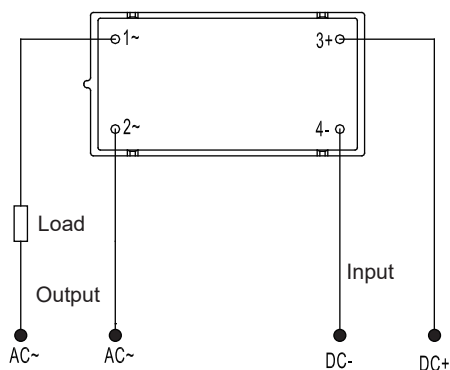


Standard Footprint

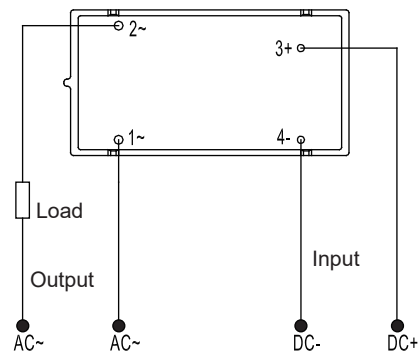


T Type Footprint

### Wiring Diagram

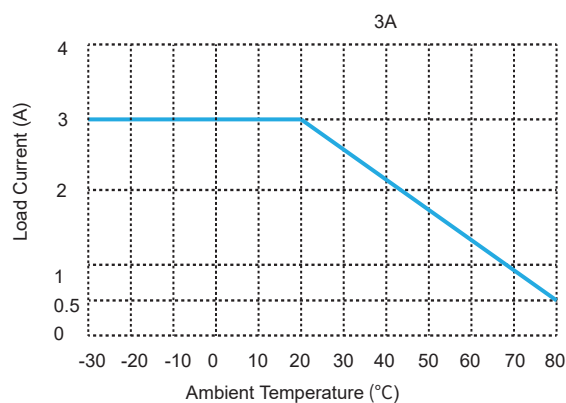
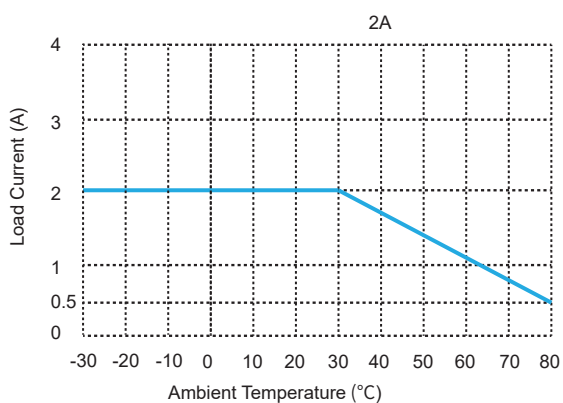


Standard Footprint



T Type Footprint

### 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.

### Agency Approvals (Certification)



Note: The product without RC is not UL certified