

MOSFET Output

- Load Voltage: 48VDC, 100VDC
- Load Current: 5A
- Dielectric Strength: 2500Vrms
- RoHS Compliant
- PCB Mounted



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Product Selection



Available Part Numbers

Control Mode	Part Numbers		
5VDC	KSF48D5-5	KSF100D5-5	
12VDC	KSF48D5-12	KSF100D5-12	
24VDC	KSF48D5-24	KSF100D5-24	
W	KSF48D5-W	KSF100D5-W	

Technical Specifications

Input Specifications (Ta=25°C)					
	5	4~6VDC			
Control Voltage Range	12	9.6~14.4VDC			
	24	19.2~28.8VDC			
	W	4~32VDC			
	5/W	4VDC			
Must Turn-on Voltage	12	9.6VDC			
	24	19.2VDC			
Must Turn-off Voltage		1VDC			
	5	25mA (@6VDC)			
Maximum Input Current	12	25mA (@14.4VDC)			
	24	25mA (@28.8VDC)			
	W	25mA (@32VDC)			





Output Specifications (Ta=25°C)					
	48VDC		0~48VDC		
Load Voltage Range	100VDC		0~75VDC		
Maximum Transiant Overveltage	48VDC		48Vpk		
Maximum transient Overvoltage	100VDC		150Vpk		
Load Current Range			0.02~5A		
Maximum Surge Current (@10ms)	I I		50A		
Mavimum On State Desistance	48VDC	 	37mΩ		
	100VDC		100mΩ		
TVC Dreakdours Voltage Dange	48VDC		64.6~71.4VDC		
I VS Dreakdown vollage kange	100VDC		105~116VDC		
Maximum Turn-on Time	 		1ms		
Maximum Turn-off Time			1ms		
Maximum Off-State Leakage Current (@Rated Load Voltage)			0.1mA		

General Specifications (Ta=25°C)				
Dielectric Strength (50/60Hz)	Input/Output 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 small power DC motor or electromagnetic valve etc.

Outline Dimensions



Wiring Diagram



Rev V5.0, 01-10-2025 Specifications are subject to change without notice. For any questions, please contact our technical support. Please visit us at www.i-autoc.com Copyright © 2025 Xiamen Kudom Electronics Technology Co., Ltd.





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. 使用过程中产品的侧面及底板会发热,请在冷却后再触摸。
- 2. 安装或使用本产品前,请确保断开所有电源。
- 3. 请检查所有连接是否妥当后再打开电源。

