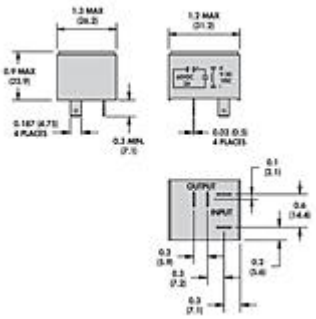
Magnecraft
191 Waukegan Rd, Ste 206
Northfield, IL 60093-2743
Phone: (847)441-2526
Fax: (847)441-2522
Email: info@magnecraft.com

Item # 70S2-02-A-03-K, 70S2 Series Solid State Relays/K Style

70S2 Series Solid State Relays/K Style

The 70S2 Series relays have excellent thermal performance and are designed for medium-power loads. Its compact size makes it ideal for designs where space is limited. The design incorporates a triac output for AC loads and MOSFETs for DC loads. Optical isolation protects the control from transients. The 70S2 is available in a combination of screw, fast-on or PCB terminals.



SPECIFICATIONS · OUTPUT CHARACTERISTICS · INPUT CHARACTERISTICS · PERFORMANCE CHARACTERISTICS · ENVIRONMENT · MISCELLANEOUS CHARACTERISTICS

SPECIFICATIONS

Component Type	Solid State
Mounting Type	Socket Mount
Rated Current Load	3 A
Contact Configuration	SPST-NO
Control Voltage	DC
Load Type	DC
Input Voltage Range	9 to 30 VDC
Output Voltage Range	3 to 60 VDC
Switching Type	DC Switching

OUTPUT CHARACTERISTICS

Switching Device	MOSFET
Current Rating	3 A
Switching Voltage	3 to 60 VDC
Min. Load Current to Maintain On	100 mA
Non-Repetitive Surge Current (1 cycle)	7 (1 SEC) A
Max. Off State Leakage Current [rms]	10 µA
Minimum Peak Blocking Voltage	105 VDC
Typical On State Voltage Drop [rms]	1.2 V

INPUT CHARACTERISTICS

Voltage Range	9 to 30 VDC
Must Release Voltage	5 VDC
Typical Input Current at 5VDC or 240VAC	5 to 17 mA
Maximum Reverse Control Voltage	5 VDC

PERFORMANCE CHARACTERISTICS

Electrical Life (UL508), Operations at Rated Current (Resistive)	100000
Mechanical Life, Unpowered	10000000
Operating Time (Response Time) - On	ms 75 µs
Operating Time (Response Time) - Off	ms 500 µs
Dielectric Strength, Terminals to Chassis	3000 VAC

ENVIRONMENT

Product Certifications, Standard Version	CSA UR
Ambient Air Temperature around the Device - Storage	-40 to +125 °C
Ambient Air Temperature around the Device - Operation	-40 to +100 °C

MISCELLANEOUS CHARACTERISTICS

Thermal Resistance (Junction to Case)	1.5 °C/W