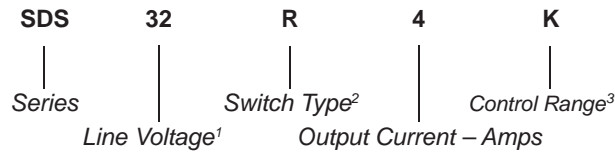


Part Number	Description
SDS32R4K	4A, 32 Vdc
SDS32R4A	4A, 32 Vdc

Part Number Explanation



NOTES

- 1) Line Voltage (nominal) 32= 32 Vdc
- 2) Switch Type: R = Random turn-on
- 3) Control Range: K = 18-32 Vdc
A = 3-10 Vdc

MECHANICAL SPECIFICATION

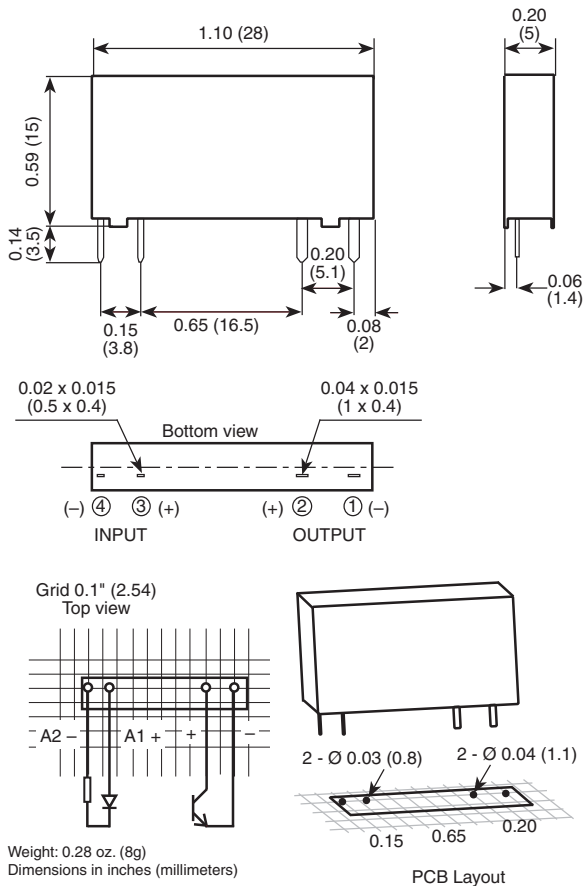


Figure 1



FEATURES/BENEFITS

- Slim compact DC design
- Range for printed circuit board
- Integrated voltage clamp
- High surge handling capabilities

DESCRIPTION

The SDS relays are designed in a compact thin plastic package. The SDS series offers output load rating of 4A 32Vdc. The SDS offers 5V and 24Vdc nominal control voltages. The SDS series is design for PCB mounting. The MOSFET output provides high immunity to surges and reliable switching. The relays have a built in transil for over voltage protection. The compact size and power handling capabilities make the SDS an excellent choice for DC applications.

ELECTRICAL SPECIFICATIONS

(+20°C ambient temperature unless otherwise specified)

INPUT (CONTROL) SPECIFICATION

	Min	Max	Units
Control Range			
SDS32R4K	18	32	Vdc\
SDS32R4A	3	10	Vdc

Input Current Range

SDS32R4K	5.5	10.2	mA
SDS32R4A	5.5	27	mA

Must Turn-Off Voltage

SDS32R4K	8.3	Vdc\
SDS32R4A	1.8	Vdc

Input Resistance (Typical)

SDS32R4K	3000	Ohms\
SDS32R4A	320	Ohms

ELECTRICAL SPECIFICATIONS

(+20°C ambient temperature unless otherwise specified)

OUTPUT (LOAD) SPECIFICATION

	Min	Max	Units
Operating Range	0	32	Vdc
Maximum Surge Current Rating (Non-Repetitive)		9	A
Output Current Range	.001	4	A
Maximum Energy for Transil 1ms		600	W
On-State Voltage Drop (@2A)		0.24	V
Output On Resistance		120	mOhms
Off-State Leakage Current		1	mA
Turn-On Time		50	µs
Turn-Off Time		600	µs
Operating Frequency Range		100*	Hz
Breakdown Voltage @1mA		36	Vdc

GENERAL SPECIFICATIONS

(+20°C ambient temperature unless otherwise specified)

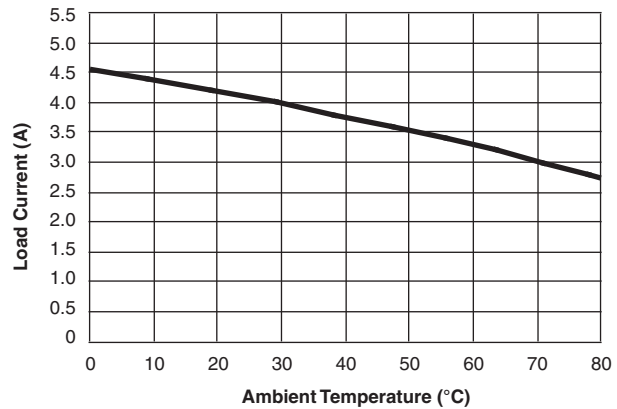
ENVIRONMENTAL SPECIFICATIONS

	Min	Max	Units
Operating Temperature	-20	80	°C
Storage Temperature	-25	80	°C
Input-Output Isolation	2500		Vrms
Maximum Soldering Heat (10 sec)		220	°C

NOTES

- 1) In case of many SSRs side by side, take a derating current into account.
- 2) On inductive loads, use a free-wheeling diode (or clamp).
- 3) For additional/custom options, contact factory.

THERMAL CHARACTERISTICS



NON-REPETITIVE SURGE CURRENT

