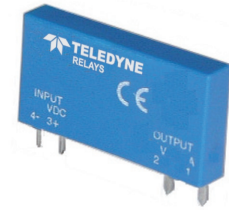


FEATURES/BENEFITS

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



Part Number Description

SDS32R4A	4A, 32 Vdc
SDS32R4C	4A, 32 Vdc
SDS32R4K	4A, 32 Vdc
SDS60R2A	2.5A, 60 Vdc
SDS60R2C	2.5A, 60 Vdc
SDS60R2K	2.5A, 60 Vdc

Part Number Explanation

SDS	32	R	4	A
Series	Line Voltage ¹	Switch Type ²	Output Current – Amps	Control Range ³

NOTES

- 1) Line Voltage (nominal): 32 = 320 Vdc; 60 = 600 Vdc
 2) Switch Type: R = Random turn-on
 3) Control Range: A = 3–10 Vdc; C = 7–20 Vdc; K = 18–32 Vdc

ELECTRICAL SPECIFICATIONS

(+20°C ambient temperature unless otherwise specified)

INPUT (CONTROL) SPECIFICATIONS

	Min	Max	Units
Control Range			
SDSXXRXA	3	10	Vdc
SDSXXRXC	7	20	Vdc
SDSXXRXK	18	32	Vdc

Input Current Range

SDSXXRXA	5.5	27	mA
SDSXXRXC	5.5	18	mA
SDSXXRXK	5.5	10.2	mA

Must Turn-Off Voltage

SDSXXRXA	1.8	Vdc
SDSXXRXC	3.6	Vdc
SDSXXRXK	8.3	Vdc

MECHANICAL SPECIFICATION

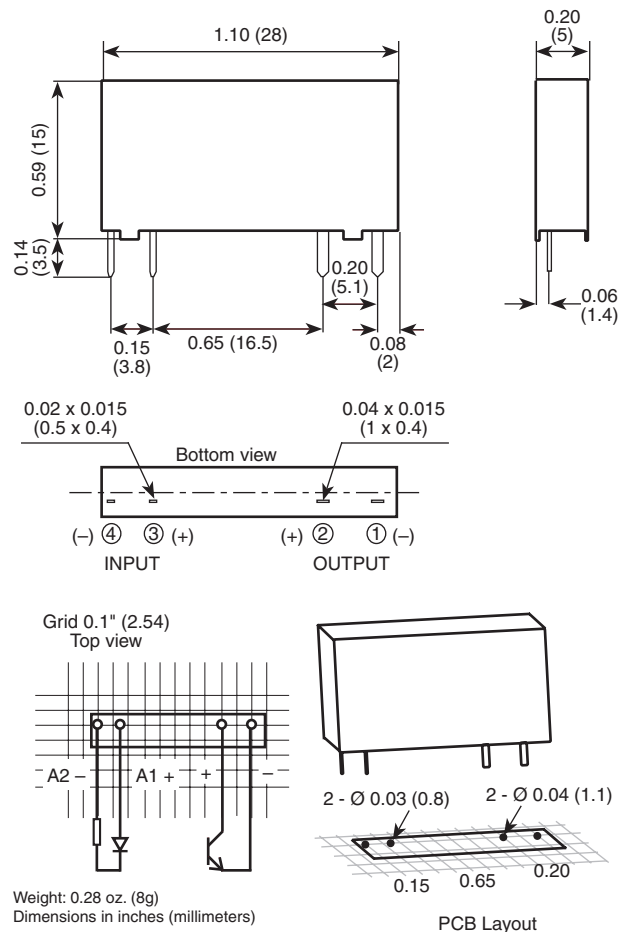


Figure 1

INPUT (CONTROL) SPECIFICATIONS (Continued)

	Min	Max	Units
Input Resistance (Typical)			
SDSXXRXA		320	Ohms
SDSXXRXC		1070	Ohms
SDSXXRXK		3000	Ohms

ELECTRICAL SPECIFICATIONS

(+20°C ambient temperature unless otherwise specified)

OUTPUT (LOAD) SPECIFICATIONS

	Min	Max	Units
Operating Range			
SDS32	0	32	V
SDS60	0	60	V

Maximum Surge Current Rating (Non-Repetitive)

SDS32	9	A
SDS60	6	A

Output Current Range

SDS32	.001	4	A
SDS60	.001	2.5	A

Maximum Energy for Transil 1ms

	600	W
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On-State Voltage Drop (@2A)

SDS32	0.24	V
SDS60	0.4	V

Output On Resistance

SDS32	120	mOhms
SDS60	200	mOhms

Off-State Leakage Current

	1	mA
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Turn-On Time

	50	µs
--	----	----

Turn-Off Time

	600	µs
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Operating Frequency Range

	100*	Hz
--	------	----

Breakdown Voltage @1mA

SDS32	36	Vdc
SDS60	62	Vdc

*For switching frequencies greater than 1Hz, you may need to reduce the current. For more information, contact our technical department.

THERMAL CHARACTERISTICS

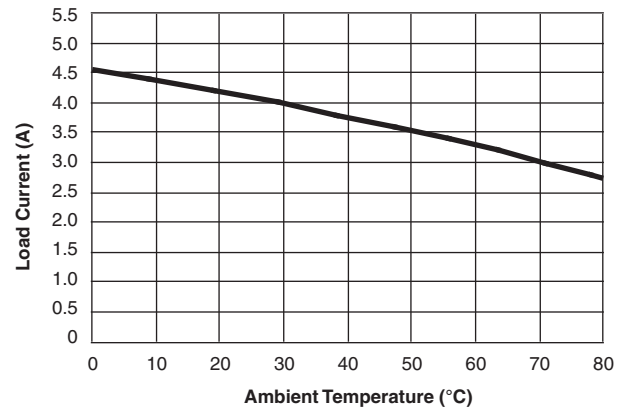


Figure 2a — SDS32 relays

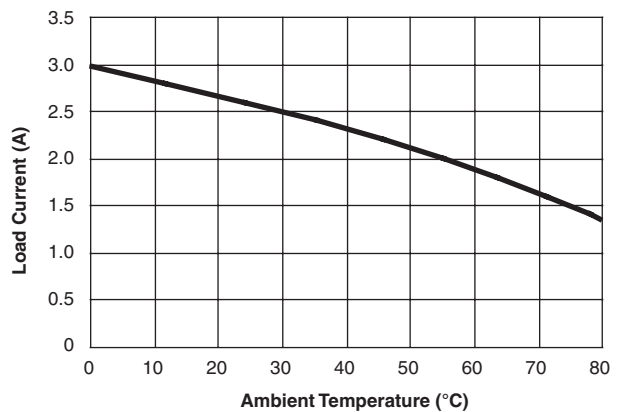


Figure 2b — SDS60 relays

NON-REPETITIVE SURGE CURRENT

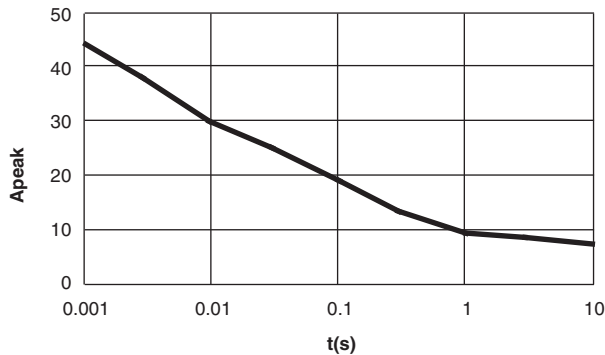


Figure 3a - SDS32 relays

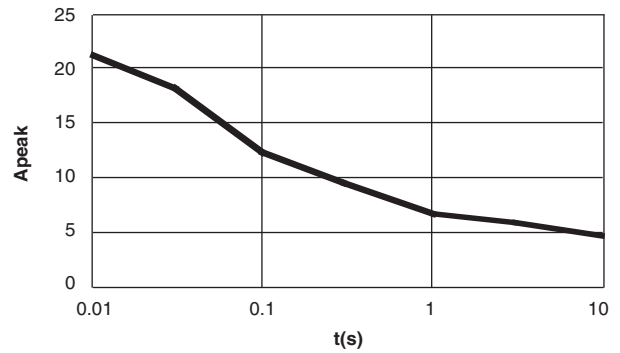


Figure 3b - SDS60 relays

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.