Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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SSRA series

2A Miniature, SIP Solid State Relay With Paired SCR Output

File E29244

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to confirm the product meets the requirements for a given application.

Features

- Miniature SIP package permits high density population of PC board.
- 2A rms inverse-parallel connected SCR output.
- 4-10 VDC input control.
- Zero voltage and random voltage turn-on versions.
- 2500V rms optical isolation.

Engineering Data

Form: 1 Form A (SPST-NO).
Duty: Continuous.
Isolation: 2500V rms input-to-output-to-ground.
Insulation Resistance: 10^9 Ohms, minimum, at 500VDC.
Capacitance: 8.0 pf maximum (input to output).
Temperature Range:
Storage: –30°C to +125°C
Operating: –30°C to + 80°C
Case Material: Thermally conductive epoxy encapsulation.
Case and Mounting: Refer to outline dimension drawing.
Termination: Printed circuit terminals. Refer to outline dimension drawing.
Approximate Weight: .15 oz. (4.3g).

Ordering Information

Product code structure Typical product code	**SSRA**	**-240**	**D**	**2**	**R**

Basic Series
SSRA Miniature SIP Solid State Relay

Line Voltage
240 24 - 280 VAC

Input Type & Voltage
D 4 - 10 VDC

Maximum Switching Rating / Output
2 2.0A rms

Options
Blank Zero voltage turn-on
R Random voltage turn-on

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

SSRA-240D2
SSRA-240D2R

Input Specifications

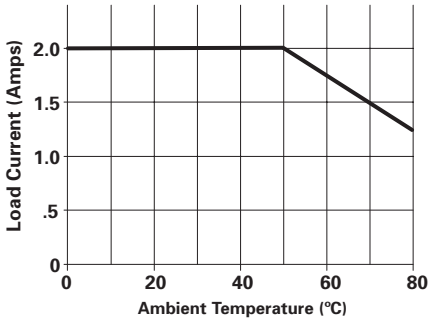
Parameter	Conditions	Units	Zero V or Random V Turn-on Units
Control Voltage Range V_{IN}	@ 25°C	VDC	4-10
Must Operate Voltage $V_{IN(OP)}$ (Min.)	@ 25°C	VDC	4
Must Release Voltage $V_{IN(REL)}$ (Min.)	@ 25°C	VDC	1
Input Current @ 5 VDC (Typ.)	@ 25°C	mA DC	15
Input Impedance (Nom.)	@ 25°C	ohms	300

Output Specifications (@ 25° C, unless otherwise specified)

Parameter	Conditions	Units	
Load Voltage Range V_L	f = 47 - 63 Hz.	V rms	12 - 280
Repetitive Blocking Voltage (Min.)		V peak	±600
Load Current Range I_L*		A rms	.06 - 2.0
Single Cycle Surge Current (Min.)		A peak	120
Leakage Current (Off-State) (Max.)	f = 60 Hz. V_L = 280Vrms	mA rms	0.1
On-State Voltage Drop (Max.)	I_L = Max.	V peak	1.5
Static dv/dt (Off-State) (Min.)	V_L = Max.	V/µs	500
Turn-On Time (Max.)	f = 60 Hz.	ms	8.3 for Zero Voltage Turn-On Models 0.1 for Random Voltage Turn-On Models
Turn-Off Time (Max.)	f = 60 Hz.	ms	8.3
Load Power Factor Rating (Min.)	I_L = Max.		0.5

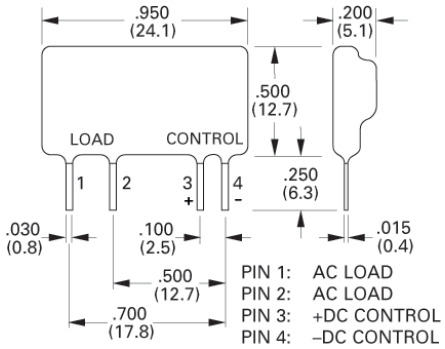
*see Thermal Derating Curves

Electrical Characteristics (Thermal Derating Curve)



Max. Load Current vs. Temp.

Outline Dimensions



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