

TECHNICAL DATA  
PART NUMBER: SCP-5285, REV D

## AC SOLID STATE RELAY

### Features:

- Back-to-back SCR output for high reliability
- 75A rating upto 85°C Base Plate Temperature
- 1600V Surge Voltage Withstand Capability
- Zero voltage Turn-ON Switching reduces EMC issues
- Panel Mount with Screw Terminals for easy assembly
- Similar to Teledyne SSR1600660D75

### Electrical Characteristics

Input Power	
Input Voltage	4.5V ~ 32V DC
Input Current at any input voltage	15 mA Typ
Reverse Voltage	-32V DC (max)
Must Turn-off voltage	1.0V DC (max)
Turn-off Current	0.25 mA (max)
Output	
Operating Voltage	48V ~ 660V AC
Frequency Range	47 Hz ~ 440 Hz
Output Current	75A max upto 85°C Base Plate Temperature
Min Load Current	100 mA RMS
Transient Overvoltage (Vpk)	Up to 1600V
Surge Current	800 Apk for 16.6 msec (max)
ON State Voltage Drop	1.7V @ 75A (max)
OFF State Leakage Current	20 mA RMS (max)
OFF State dv/dt @ 660VAC	1000 V/usec
Turn-ON Time	8.3 msec @ 60 Hz or ½ cycle (max)
Turn-OFF Time	8.3 msec @ 60 Hz or ½ cycle (max)

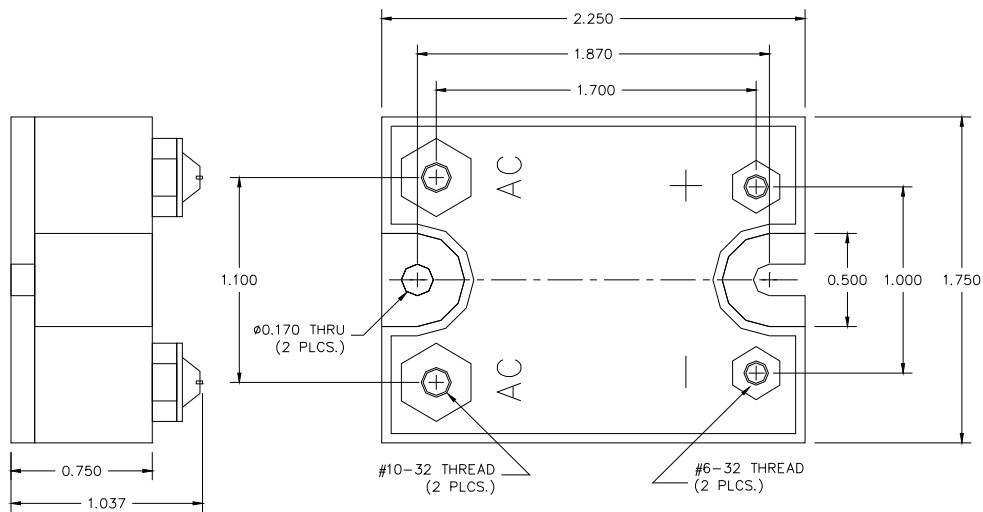
### Physical Characteristics

Temperature	
Operating	T <sub>c</sub> = -40°C to +85°C
Storage	T <sub>c</sub> = -40°C to +125°C
Hipot: input / output to case	Up to 3000 V rms 1 minute minimum
Cooling	
Power Dissipation	100W upto 85°C base plate temperature
Thermal Resistance (Junction to Case)	0.3 °C/W

**TECHNICAL DATA**  
**PART NUMBER: SCP-5285, Rev D**

Others	
Case Dimensions	See Drawing
Base Plate Material	Copper Plate
Terminals	Floating Screw Type
Construction	High Temperature Plastic Housing

**Mechanical Dimensions: in mm (Inches)**



**TECHNICAL DATA**  
**PART NUMBER: SCP-5285, REV D**

**DISCLAIMER:**

- 1- *The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).*
- 2- *In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.*
- 3- *In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.*
- 4- *In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.*
- 5- *No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.*
- 6- *The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron Semiconductor.*
- 7- *The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.*