

TECHNICAL DATA  
DATA SHEET 5416, REV. A

## THREE PHASE FULL WAVE RECTIFIER ASSEMBLY

DESCRIPTION: Super fast recovery, fast recovery, general purpose, 3-phase full wave rectifier assembly.

MAXIMUM RATINGS / ELECTRICAL CHARACTERISTICS: All ratings are at  $t_c = 25^\circ\text{C}$  unless otherwise specified.

MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE:  $(t_c, t_{stg}) = -55^\circ\text{C}$  to  $+150^\circ\text{C}$ .

OPTION: Add suffix "S" to the part number for S-100 screening.

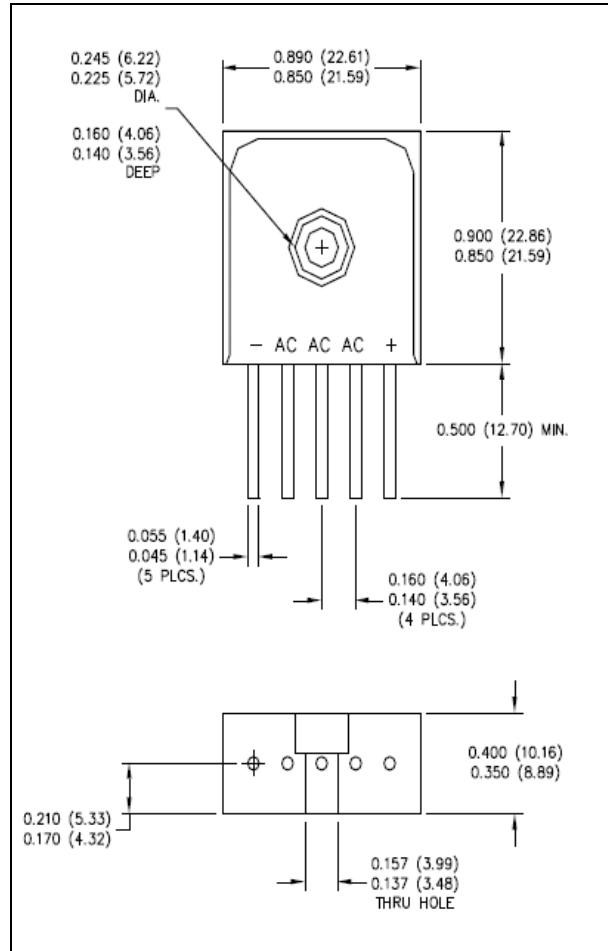
DIELECTRIC: A Dielectric Withstanding Voltage test will be performed with the metal case of the assembly connected to ground and all terminals connected to the high potential side of a DC power supply or scope display test. Voltage applied shall be 2800 Vdc and held for 10 seconds.

WEIGHT: 18 gms max.

TYPE NUMBER	PEAK INVERSE VOLTAGE (PER LEG)	MAX. AVERAGE DC OUTPUT CURRENT		PEAK 1 CYCLE SURGE CURRENT $t_p = 8.3$ msec (PER LEG)	MAX. FORWARD VOLTAGE DROP (PER LEG)		MAX. REVERSE CURRENT $I_r$ @ PIV (PER LEG) ( $\mu\text{A}$ )		MAX. THERMAL RESISTANCE $R_{\theta JC}$ (PER LEG)	MAX. REVERSE REC. TIME (PER LEG) $I_F = 0.5\text{A}$ , $I_R = 1.0\text{A}$ , $T_{RR} = 0.25\text{A}$
		55°C	100°C		Volts	Amps	25°C	100°C		
S455CA	150	35	23	80	1.10	5	10	100	1.7	40
S455DA	200	35	23	80	1.10	5	10	100	1.7	40
S455DC	200	22	15	80	1.75	9	5	100	2.5	85
S455FC	400	22	15	80	1.75	9	5	100	2.5	85
S455GC	600	22	15	80	1.75	9	5	100	2.5	85
S455GE	600	25	17	80	1.60	9	5	100	1.7	180
S455GH	600	30	20	80	1.40	9	5	100	1.7	5000
S455IE	1000	22	15	80	1.75	9	5	100	2.5	180
S455IH	1000	30	20	80	1.40	9	5	100	1.7	5000

**TECHNICAL DATA  
DATA SHEET 5416, REV. A**

**MECHANICAL DIMENSIONS: In Inches / mm**



**CAT. 455**

**CASE:** Black anodized  
**POTTING SURFACE:** Uncontrolled

**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.