

TECHNICAL DATA
DATA SHEET 5421, REV. -

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°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: 26 gms max.

TYPE NUMBER	PEAK INVERSE VOLTAGE (PER LEG)	MAX. AVERAGE DC OUTPUT CURRENT		PEAK 1 CYCLE SURGE CURRENT $t_p = 8.3 \text{ msec}$ (PER LEG)	MAX. FORWARD VOLTAGE DROP (PER LEG)		MAX. REVERSE CURRENT I_r @ PIV (PER LEG) (μA)		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		
SL30315HE	150	30	22	80	1.1	5	10	100	1.7	40
SL30315HEL	150	30	22	80	1.1	5	10	100	1.7	40
SL30320	200	30	22	80	1.3	9	5	100	1.7	5000
SL30320L	200	30	22	80	1.3	9	5	100	1.7	5000
SL30320FR	200	22.5	16.5	80	1.6	9	5	100	1.7	180
SL30320FRL	200	22.5	16.5	80	1.6	9	5	100	1.7	180
SL30320S7	200	20	15	80	1.75	9	5	100	2.5	85
SL30340	400	30	22	80	1.3	9	5	100	1.7	5000
SL30340L	400	30	22	80	1.3	9	5	100	1.7	5000
SL30340FR	400	22.5	16.5	80	1.6	9	5	100	1.7	180
SL30340FRL	400	22.5	16.5	80	1.6	9	5	100	1.7	180

SENSITRON

SEMICONDUCTOR

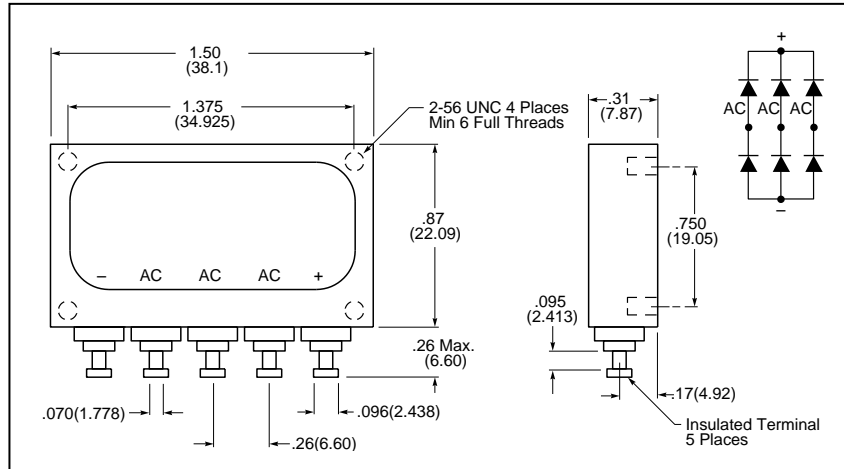
SL30315HE,SL30315HEL,SL30320,SL30320L,SL30320FR,SL30320FRL,SL30320S7,SL30340,SL30340L,SL30340FR,SL30340FRL,SL30340S7,SL30360,SL30360L,SL30360FR,SL30360FRL,SL30360S7,SL30360S7L,SL30380,SL30380L,SL303100,SL303100L,SL303100FR,SL303100FRL

TECHNICAL DATA DATA SHEET 5421, REV. -

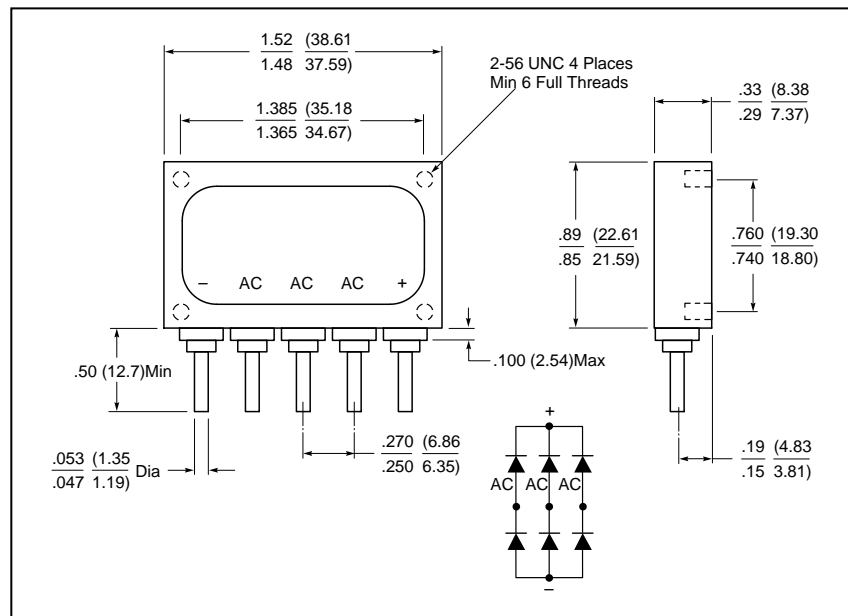
TYPE NUMBER	PEAK INVERSE VOLTAGE (PER LEG)	MAX. AVERAGE DC OUTPUT CURRENT		PEAK 1 CYCLE SURGE CURRENT $t_p = 8.3 \text{ msec}$ (PER LEG)	MAX. FORWARD VOLTAGE DROP (PER LEG)		MAX. REVERSE CURRENT I_r @ PIV (PER LEG) (μA)		MAX. THERMAL RESISTANCE $R_{\theta JC}$ (PER LEG)	MAX. REVERSE REC. TIME (PER LEG) $I_F = 0.5\text{A},$ $I_R = 1.0\text{A},$ $T_{RR} = 0.25\text{A}$
		55°C	100°C		Volts	Amps	25°C	100°C		
SL30340S7	400	20	15	80	1.75	9	5	100	2.5	85
SL30360	600	30	22	80	1.3	9	5	100	1.7	5000
SL30360L	600	30	22	80	1.3	9	5	100	1.7	5000
SL30360FR	600	22.5	16.5	80	1.6	9	5	100	1.7	180
SL30360FRL	600	22.5	16.5	80	1.6	9	5	100	1.7	180
SL30360S7	600	20	15	80	1.75	9	5	100	2.5	85
SL30360S7L	600	20	15	80	1.75	9	5	100	2.5	85
SL30380	800	30	22	80	1.3	9	5	100	1.7	5000
SL30380L	800	30	22	80	1.3	9	5	100	1.7	5000
SL303100	1000	30	22	80	1.3	9	5	100	1.7	5000
SL303100L	1000	30	22	80	1.3	9	5	100	1.7	5000
SL303100FR	1000	20	15	80	1.75	9	5	100	2.5	180
SL303100FRL	1000	20	15	80	1.75	9	5	100	2.5	180

TECHNICAL DATA
DATA SHEET 5421, REV. -

MECHANICAL DIMENSIONS: In Inches / mm



CAT. 406



CAT. 406L

CASE: Black anodized
POTTING SURFACE: Uncontrolled

TECHNICAL DATA
DATA SHEET 5421, REV. -

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.