

TECHNICAL DATA  
DATA SHEET 5421, REV. A.1

## 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:** 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) ( $\mu\text{A}$ )		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		
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
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,SL30340,SL30340L,SL30340FR,SL30340FRL,  
 SL30340S7,SL30360,SL30360L,SL30360FR,SL30360FRL,  
 SL30360S7,SL30360S7L,SL30380,SL30380L,SL303100,  
 SL303100L,SL303100FR,SL303100FRL

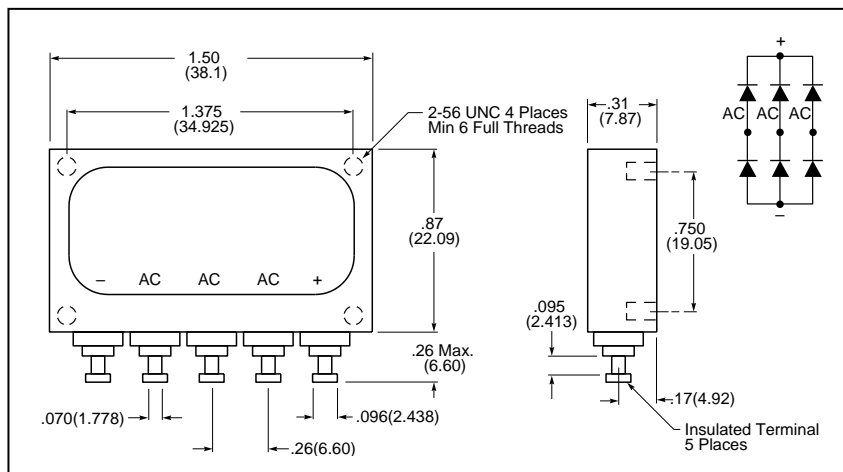
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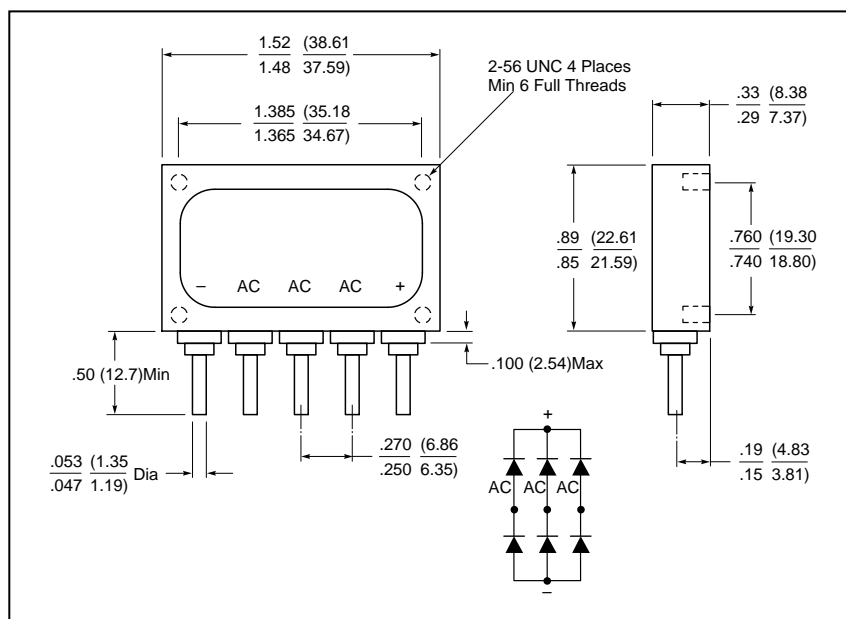
TYPE NUMBER	PEAK INVERSE VOLTAGE (PER LEG)	MAX. AVERAGE DC OUTPUT CURRENT		PEAK 1 CYCLE SURGE CURRENT $t_p = 8.3 \text{ msec}$ (PER LEG)	MAX. FORWARD VOLTAGE DROP (PER LEG)		MAX. REVERSE CURRENT $I_r$ @ PIV (PER LEG) ( $\mu\text{A}$ )		MAX. THERMAL RESISTANCE $R_{\theta JC}$ (PER LEG) $^{\circ}\text{C/W}$	MAX. REVERSE REC. TIME (PER LEG) $I_F = 0.5\text{A},$ $I_R = 1.0\text{A},$ $T_{RR} = 0.25\text{A}$ ns
		55 $^{\circ}\text{C}$	100 $^{\circ}\text{C}$		Volts	Amps	25 $^{\circ}\text{C}$	100 $^{\circ}\text{C}$		
SL30340S7	400	20	15	80	2.6	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	2.6	9	5	100	2.5	85
SL30360S7L	600	20	15	80	2.6	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	250
SL303100FRL	1000	20	15	80	1.75	9	5	100	2.5	250

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**MECHANICAL DIMENSIONS: In Inches / mm**



**CAT. 406**



**CAT. 406L**

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

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PART ORDERING INFORMATION

**SL30315HEXX**

↓  
Part Number

Suffix	Description (ordered as follows):
B	Lead bend
S	MIL-PRF-19500. S Level

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