

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°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 |
| 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

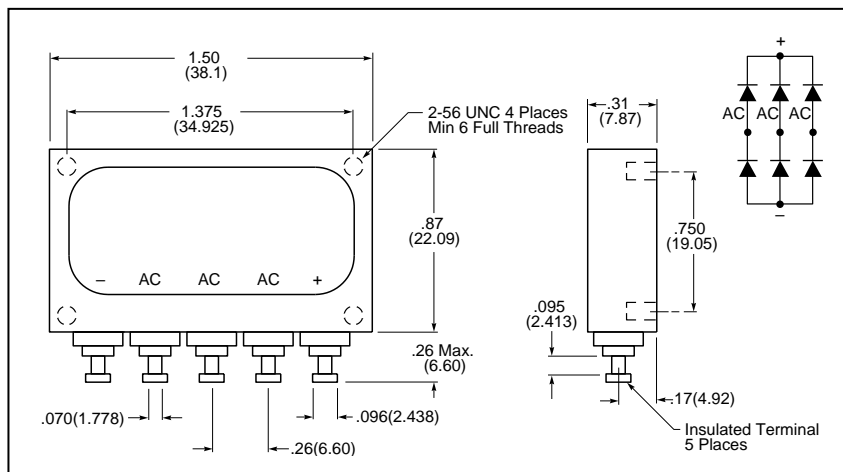
TECHNICAL DATA

DATA SHEET 5421, REV. A.1

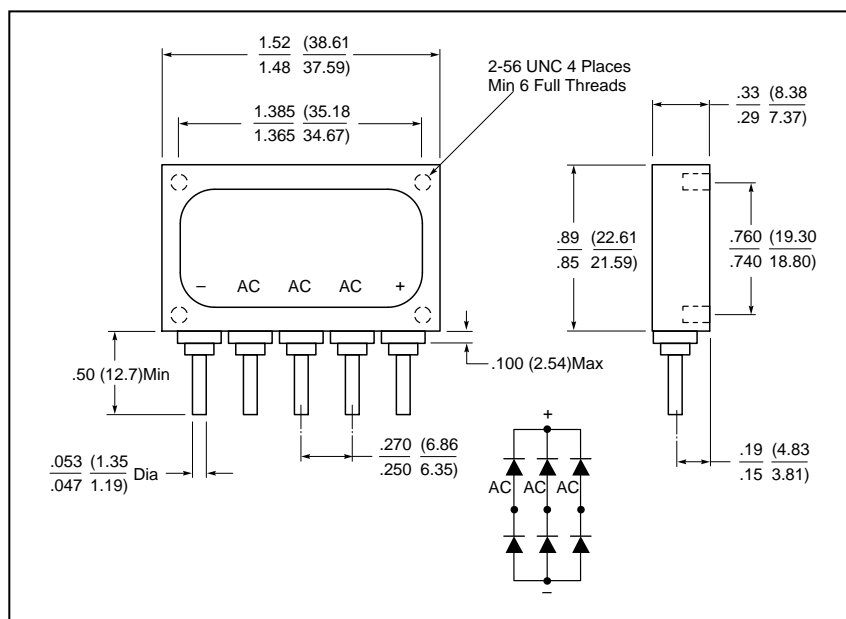
| TYPE NUMBER | PEAK INVERSE VOLTAGE (PER LEG) | MAX. AVERAGE DC OUTPUT CURRENT | | PEAK 1 CYCLE SURGE CURRENT $t_p = 8.3 \text{ msec}$ (PER LEG) | MAX. FORWARD VOLTAGE DROP (PER LEG) | | MAX. REVERSE CURRENT I_r @ PIV (PER LEG) (μA) | | MAX. THERMAL RESISTANCE $R_{\theta JC}$ (PER LEG) $^{\circ}\text{C/W}$ | 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 |

TECHNICAL DATA
DATA SHEET 5421, REV. A.1

MECHANICAL DIMENSIONS: In Inches / mm



CAT. 406



CAT. 406L

CASE: Black anodized
POTTING SURFACE: Uncontrolled

TECHNICAL DATA
DATA SHEET 5421, REV. A.1

PART ORDERING INFORMATION

SL30315HEXX

↓
Part Number

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

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