

SBD MODULE 60A/30V

PE60QL03N

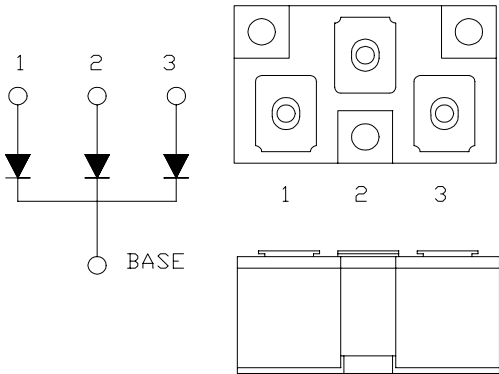
OUTLINE DRAWING

FEATURES

- * Three-Arms, Cathode Common to Base Plate
- * Extremely Low Forward Voltage Drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * UL Recognized, File No. E187184

TYPICAL APPLICATIONS

- * High Frequency Rectification



Maximum Ratings

Approx Net Weight:65g

| Voltage Rating | Symbol | PE60QL03N | | Unit |
|---------------------------------------|---------------------|---|-------------|------|
| Repetitive Peak Reverse Voltage | V _{RRM} | 30 | | V |
| Repetitive Peak Surge Reverse Voltage | V _{RRSM} | 35 (Pulse Width ≤ 1 μsec, Duty ≤ 1/50) | | V |
| Electrical Rating | | Condition | Rating | |
| Average Rectified Output Current | I _O | 50Hz Half Sine Wave per Arm, T _c =92°C | 60 | A |
| RMS Forward Current | I _{F(RMS)} | Per Arm | 94 | A |
| Surge Forward Current | I _{FSM} | 50 Hz Half Sine Wave, 1 cycle Non-repetitive, per Arm | 800 | A |
| Operating Junction Temperature Range | T _{jw} | | -40 to +125 | °C |
| Storage Temperature Range | T _{stg} | | -40 to +125 | °C |
| Mounting torque | F _{tor} | Case mounting(recommended) | 1.45 | N.m |
| | | Terminal Screw(recommended) | 1.45 | |

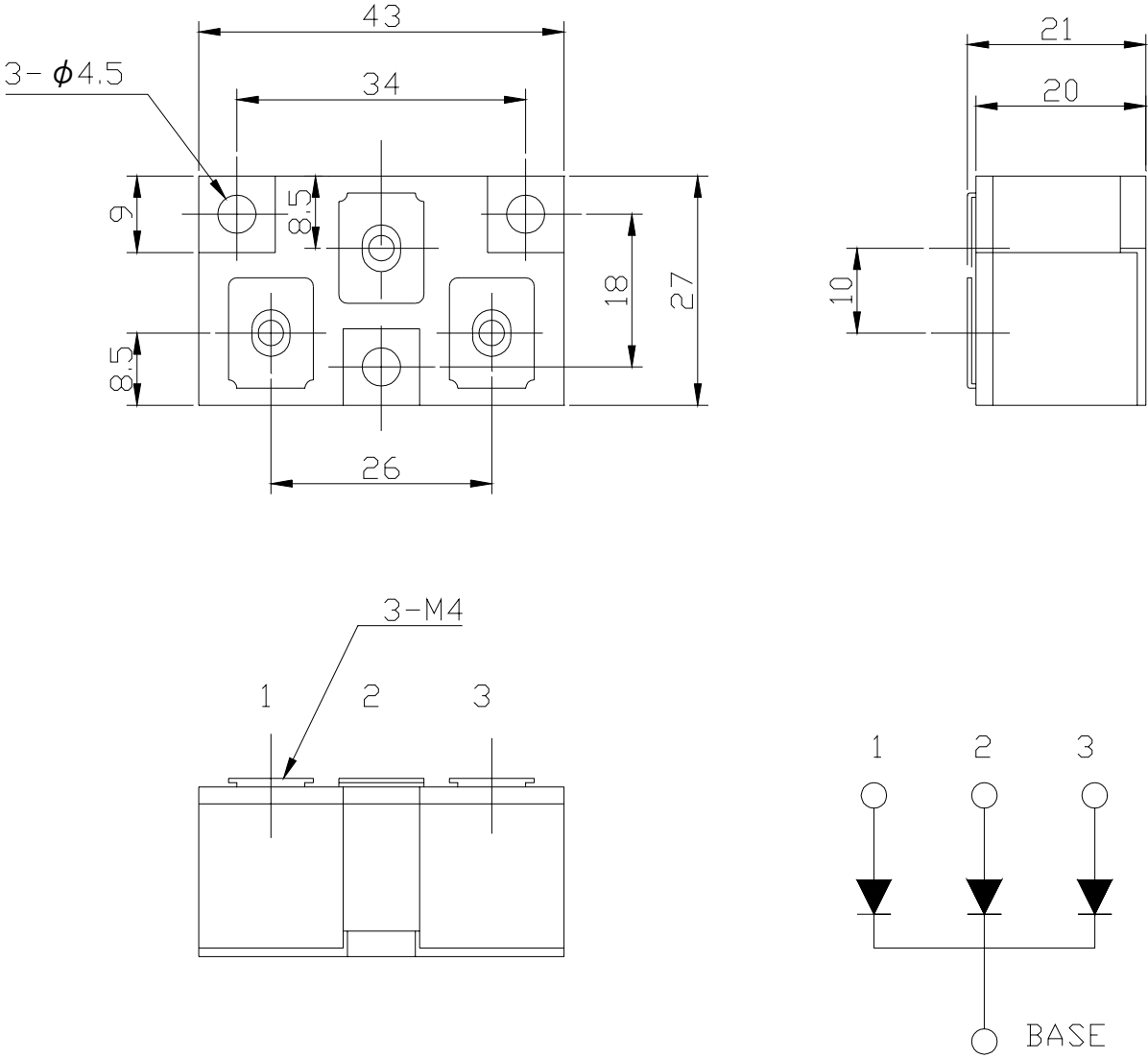
Electrical • Thermal Characteristics

| Characteristics | Symbol | Test Conditions | Max. | Unit |
|----------------------|----------------------|---|------|------|
| Peak Forward Voltage | V _{FM} | I _{FM} = 60A, T _j =25°C, per Arm | 0.50 | V |
| Peak Reverse Current | I _{RM} | V _{RM} = V _{RRM} , T _j = 25°C, per Arm | 80 | mA |
| Thermal Resistance | R _{th(j-c)} | Junction to Case, per Arm | 0.74 | °C/W |
| | R _{th(c-f)} | Base Plate to Heat Sink with Thermal Compound | 0.12 | |

We recommend the use of the electrical conductive grease.

In case of parallel use, consider in balance of the current of each arms.

PE60QL03N OUTLINE DRAWING (Dimensions in mm)



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