

## SKB30

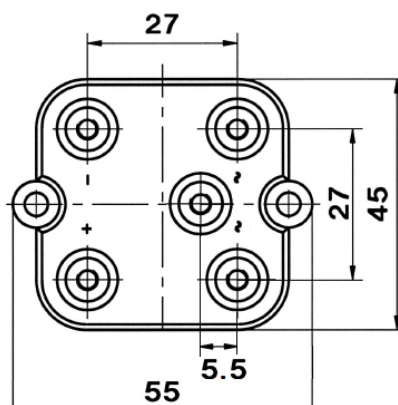
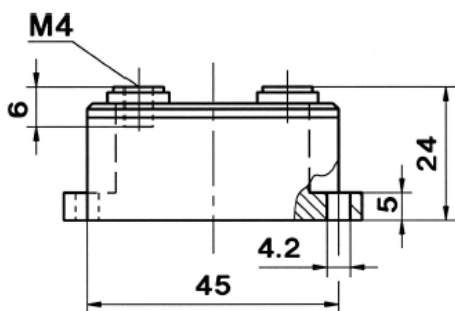
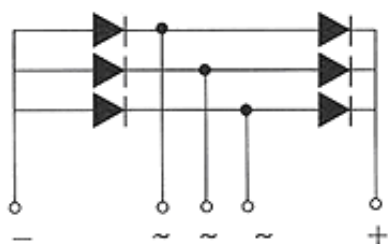
Three Phase

$$I_{dAV} = 30 \text{ A}$$

Rectifier Bridge

$$V_{RRM} = 1000-1600\text{V}$$

| $V_{RRM}$ (V) | $V_{RSM}$ (V) | TYPE      |
|---------------|---------------|-----------|
| 1000          | 1100          | SKB 30-10 |
| 1200          | 1300          | SKB 30-12 |
| 1600          | 1700          | SKB 30-16 |



## Maximum Ratings

| Symbol    | Item                                 |              | Conditions                                      | Ratings     | Unit                                              |
|-----------|--------------------------------------|--------------|-------------------------------------------------|-------------|---------------------------------------------------|
| $I_D$     | Output current (D.C.)                |              | Three phase. full wave. $T_c=117^\circ\text{C}$ | 30          | A                                                 |
| $I_{FSM}$ | Surge Forward Current                |              | 1 cycle, 50/60Hz, peak value, non-repetitive    | 270/300     | A                                                 |
| $T_j$     | Junction Temperature                 |              |                                                 | -40 to +150 | $^\circ\text{C}$                                  |
| $T_{stg}$ | Storage Temperature                  |              |                                                 | -40 to +125 | $^\circ\text{C}$                                  |
| $V_{iso}$ | Isolation Breakdown Voltage (R.M.S.) |              | Main Terminal to case 1minute                   | 2500        | V                                                 |
| $M_d$     | Mounting torque                      | Mounting(M4) | Recommended Value 1.1-1.5 (9-13)                | 1.5 (13)    | $\text{N}\cdot\text{m}(\text{kgf}\cdot\text{cm})$ |
|           |                                      | Terminal(M4) | Recommended Value 1.1-1.5 (9-13)                | 1.5 (13)    |                                                   |



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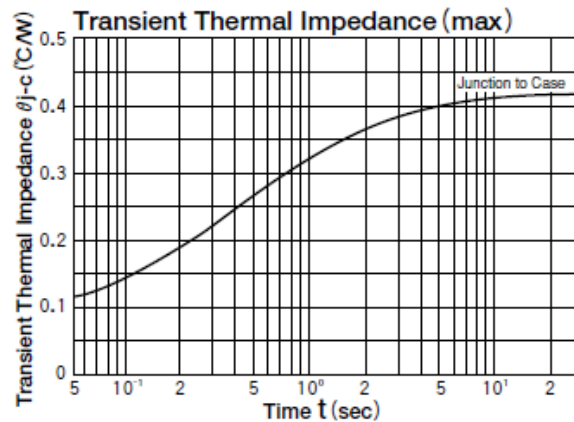
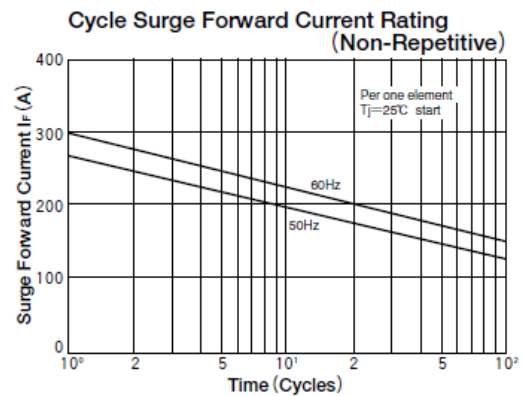
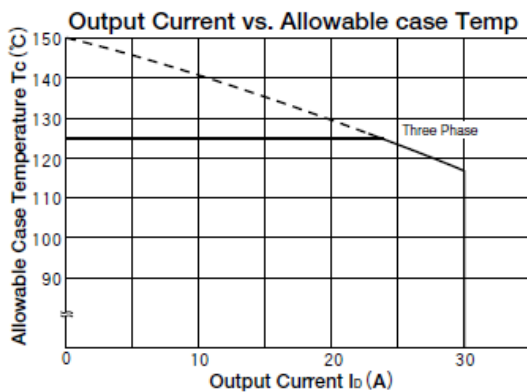
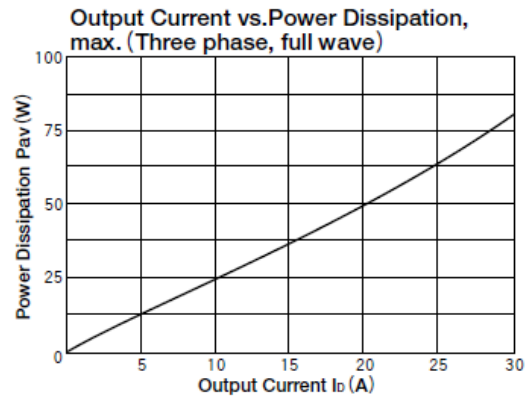
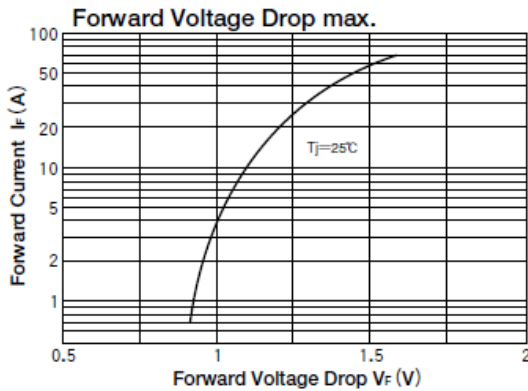
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## Electrical Characteristics

| Symbol        | Item                                  | Conditions                                                       | Ratings | Unit                        |
|---------------|---------------------------------------|------------------------------------------------------------------|---------|-----------------------------|
| $I_{RRM}$     | Repetitive Peak Reverse Current, max. | $T_j=150^{\circ}\text{C}$ at $V_{RRM}$                           | 3.0     | mA                          |
| $V_{FM}$      | Forward Voltage Drop, max.            | $I_{FM}=30\text{A}$ , $T_j=25^{\circ}\text{C}$ Inst. measurement | 1.3     | V                           |
| $R_{th(j-c)}$ | Thermal Impedance, max.               | Junction to case                                                 | 0.42    | $^{\circ}\text{C}/\text{W}$ |





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