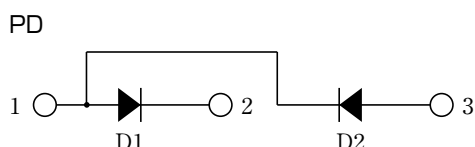


# DIODE

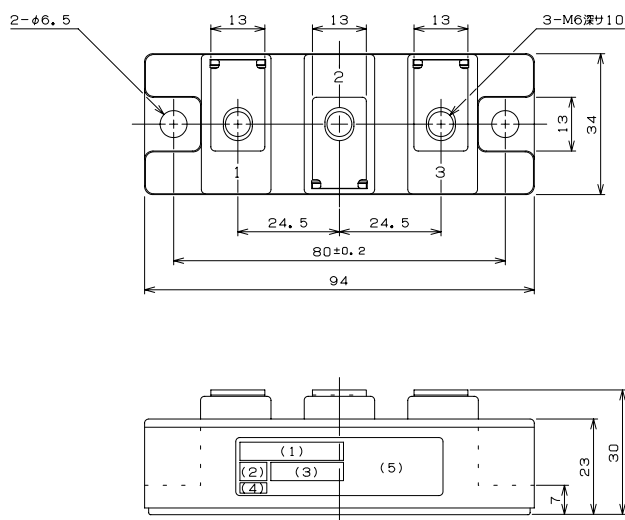
150A Avg 1600 Volts

PD150S16

## ■回路図 CIRCUIT



■外形寸法図 OUTLINE DRAWING (単位 Dimension: mm)



## ■最大定格 Maximum Ratings

| 項 目<br>Parameter                                      | 記号<br>Symbol     | 耐圧クラス Grade | 単位<br>Unit |
|-------------------------------------------------------|------------------|-------------|------------|
|                                                       |                  | PD150S16    |            |
| くり返しピーク逆電圧 *1<br>Repetitive Peak Reverse Voltage      | V <sub>RRM</sub> | 1600        | V          |
| 非くり返しピーク逆電圧 *1<br>Non Repetitive Peak Reverse Voltage | V <sub>RSM</sub> | 1700        | V          |

| 項 目<br>Parameter                                 |                  | 記号<br>Symbol                | 条 件<br>Conditions                                                     |    | 定格値<br>Max. Rated Value | 単位<br>Unit       |
|--------------------------------------------------|------------------|-----------------------------|-----------------------------------------------------------------------|----|-------------------------|------------------|
| 平均整流電流<br>Average Rectified Output Current       |                  | * 1<br>I <sub>0</sub> (AV)  | 商用周波数 180° 通電<br>Half Sine Wave T <sub>c</sub> = 108℃                 |    | 150                     | A                |
| 実効順電流<br>RMS Forward Current                     |                  | * 1<br>I <sub>F</sub> (RMS) |                                                                       |    | 235                     | A                |
| サージ順電流<br>Surge Forward Current                  |                  | * 1<br>I <sub>FSM</sub>     | 50Hz正弦半波, 1 サイクル, 非くり返し<br>Half Sine Wave, 1Pulse, Non-Repetitive     |    | 3200                    | A                |
| 電流二乗時間積<br>I Squared t                           |                  | * 1<br>I <sup>2</sup> t     | 2 ~10ms                                                               |    | 51200                   | A <sup>2</sup> s |
| 動作接合温度範囲<br>Operating Junction Temperature Range |                  |                             | T <sub>jw</sub>                                                       |    | - 40 ~ + 150            | ℃                |
| 保存温度範囲<br>Storage Temperature Range              |                  |                             | T <sub>stg</sub>                                                      |    | - 40 ~ + 125            | ℃                |
| 絶縁耐圧<br>Isolation Voltage                        |                  |                             | V <sub>iso</sub><br>端子 - ベース間, AC 1 分間<br>Terminal to Base, AC 1 min. |    | 2500                    | V                |
| 締付トルク<br>Mounting Torque                         | ベース部<br>Mounting | F                           | サーマルコンパウンド塗布<br>Greased                                               | M6 | 2.5 ~ 3.5               | N・m              |
|                                                  | 主端子部<br>Terminal |                             |                                                                       | M6 | 2.5 ~ 3.5               | N・m              |

## ■電気的特性 Electrical Characteristics

| 項目<br>Parameter                | 記号<br>Symbol               | 条件<br>Conditions                                        | 特性値 (最大)<br>Maximum Value | 単位<br>Unit |
|--------------------------------|----------------------------|---------------------------------------------------------|---------------------------|------------|
| ピーク逆電流<br>Peak Reverse Current | *1<br>I <sub>RM</sub>      | T <sub>j</sub> =150℃, V <sub>RM</sub> =V <sub>RRM</sub> | 30                        | mA         |
| ピーク順電圧<br>Peak Forward Voltage | *1<br>V <sub>FM</sub>      | T <sub>j</sub> = 25℃, I <sub>FM</sub> =450A             | 1.43                      | V          |
| 熱抵抗<br>Thermal Resistance      | *1<br>R <sub>th(j-c)</sub> | 接合部－ケース間<br>Junction to Case                            | 0.18                      | ℃/W        |
| 接触熱抵抗<br>Thermal Resistance    | *1<br>R <sub>th(c-f)</sub> | ケース－フィン間, サーマルコンパウンド塗布<br>Case to Fin, Greased          | 0.1                       | ℃/W        |

質量…約200g  
Approximate Weight

\*1: 1 アーム当りの値 Value Per 1 Arm.

■ 定格・特性曲線

