

25A Avg.

200 Volts

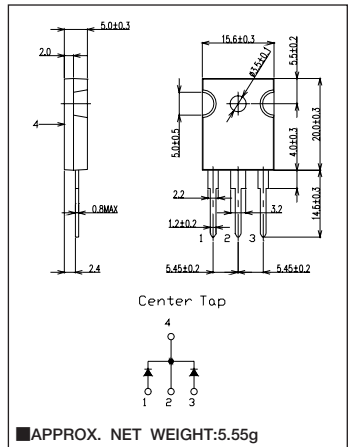
FRED

KCF25A20

## 最大定格 Maximum Ratings

| Item                                             | Symbol     | Conditions                                                              | Unit    |
|--------------------------------------------------|------------|-------------------------------------------------------------------------|---------|
| くり返しピーク逆電圧<br>Repetitive Peak Reverse Voltage    | $V_{RRM}$  | 200                                                                     | V       |
| 非くり返しピーク逆電圧<br>Repetitive Peak Reverse Voltage   | $V_{RSM}$  | 220                                                                     | V       |
| 平均整流電流<br>Average Rectified Forward Current      | $I_O$      | 50Hz、正弦全波通電抵抗負荷<br>50Hz Full Sine Wave Resistive Load                   | 25 A    |
| 実効順電流<br>R.M.S. Forward Current                  | $I_F(RMS)$ | 28                                                                      | A       |
| サーージ順電流<br>Surge Forward Current                 | $I_{FSM}$  | 150 50Hz正弦全波、1サイクル、非くり返し<br>50Hz Full Sine Wave, 1cycle, Non-repetitive | A       |
| 動作接合温度範囲<br>Operating Junction Temperature Range | $T_{jw}$   | -40~+150                                                                | °C      |
| 保存温度範囲<br>Storage Temperature Range              | $T_{stg}$  | -40~+150                                                                | °C      |
| 締付トルク<br>Mounting torque                         | $F_{tor}$  | 推奨値<br>Recommended Value                                                | 0.5 N·m |

## OUTLINE DRAWING(mm)



## 電氣的・熱的特性 Electrical/Thermal Characteristics

| Item                           | Symbol        | Conditions                                                 | Min. | Typ. | Max. | Unit    |
|--------------------------------|---------------|------------------------------------------------------------|------|------|------|---------|
| ピーク逆電流<br>Peak Reverse Current | $I_{RM}$      | $T_j=25^{\circ}C$ , $V_{RM}=V_{RRM}$ , 一素子あたり<br>Per Diode | —    | —    | 25   | $\mu A$ |
| ピーク順電圧<br>Peak Forward Voltage | $V_{FM}$      | $T_j=25^{\circ}C$ , $I_{FM}=12.5A$ , 一素子あたり<br>Per Diode   | —    | —    | 0.98 | V       |
| 逆回復時間<br>Reverse Recovery Time | $t_{rr}$      | $I_{FM}=10A$ , $-di/dt=50 A/\mu s$ , $T_j=25^{\circ}C$     | —    | —    | 50   | ns      |
| 熱抵抗<br>Thermal Resistance      | $R_{th(j-c)}$ | 接合部・ケース間<br>Junction to Case                               | —    | —    | 2    | °C/W    |

## 定格・特性曲線

FIG.1

順電圧特性  
FORWARD CURRENT VS. VOLTAGE

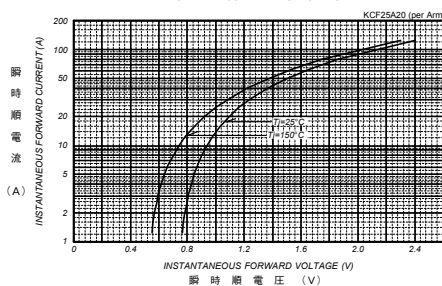


FIG.2

平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION

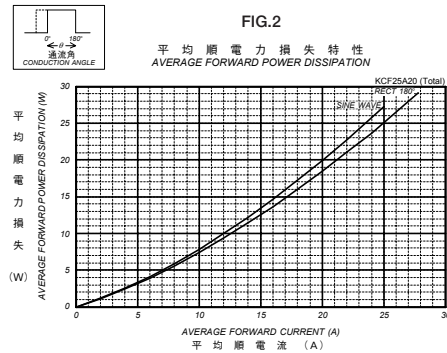


FIG.3

平均順電流－ケース温度定格  
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

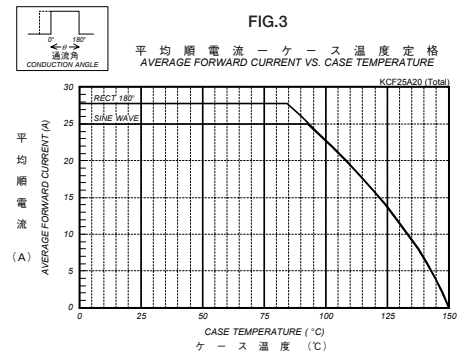


FIG.4

サーージ順電流定格  
SURGE CURRENT RATINGS

