

1A Avg.

200 Volts

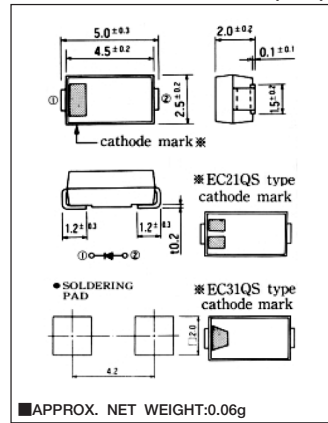
FRED

EC10UA20

■最大定格 Maximum Ratings

| Item | Symbol | Conditions | Unit |
|--|--------------|--|-------------|
| くり返しピーク逆電圧 Repetitive Peak Reverse Voltage | V_{RRM} | 400 | V |
| 平均整流電流 Average Rectified Forward Current | I_O | $T_a=32^{\circ}C^{*1}$ | 1.0 A |
| | | $T_a=41^{\circ}C^{*2}$ | 0.7 A |
| 実効順電流 R.M.S. Forward Current | $I_{F(RMS)}$ | 1.57 | A |
| サージ順電流 Surge Forward Current | I_{FSM} | 20 50Hz正弦半波, 1サイクル, 非くり返し 50Hz Half Sine Wave, 1cycle, Non-repetitive | A |
| 動作接合温度範囲 Operating Junction Temperature Range | T_{jw} | -40~+150 | $^{\circ}C$ |
| 保存温度範囲 Storage Temperature Range | T_{stg} | -40~+150 | $^{\circ}C$ |

■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 Peak Reverse Current | I_{RM} | $T_j=25^{\circ}C, V_{RM}=V_{RRM}$ | — | — | 20 | μA |
| ピーク順電圧 Peak Forward Voltage | V_{FM} | $T_j=25^{\circ}C, I_{FM}=1A$ | — | 0.93 | 1.10 | V |
| 逆回復時間 Reverse Recovery Time | t_{rr} | $I_{FM}=1A, -di/dt=50 A/\mu s, T_j=25^{\circ}C$ | — | 12 | 20 | ns |
| 熱抵抗 Thermal Resistance | $R_{th(j-a)}$ | 接合部・周囲間 Junction to Ambient | アルミナ基板実装 ^{*1} | | 108 | $^{\circ}C/W$ |
| | | | プリント基板実装 ^{*2} | | 157 | $^{\circ}C/W$ |

*1:アルミナ基板実装/Alumina Substrate mounted (Soldering Lands= 2×2 mm, Both Sides)
*2:プリント基板実装/Glass-Epoxy Substrate mounted (Soldering Lands= 2×2 mm, Both Sides)

■定格・特性曲線

