

TP802C06 (10A)

(60V / 10A)

SCHOTTKY BARRIER DIODE

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■ Features

- Low VF
- Super high speed switching
- High reliability by planer design

■ Applications

- High speed power switching

■ Maximum ratings and characteristics

- Absolute maximum ratings

| Item | Symbol | Conditions | Rating | Unit |
|-------------------------------------|-----------|--|-------------|------------------|
| Repetitive peak reverse voltage | V_{RRM} | | 60 | V |
| Non-repetitive peak reverse voltage | V_{RSM} | $t_w=500\text{ns}$, duty=1/40 | 60 | V |
| Average output current | I_o | Square wave, duty=1/2 $T_c=123^\circ\text{C}$ | 10* | A |
| Surge current | I_{FSM} | Sine wave 10ms | 80 | A |
| Operating junction temperature | T_j | | -40 to +150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | | -40 to +150 | $^\circ\text{C}$ |

* Average forward current of centertap full wave connection

- Electrical characteristics (Ta=25°C Unless otherwise specified)

| Item | Symbol | Conditions | Max. | Unit |
|----------------------|---------------|----------------------|------|---------------------------|
| Forward voltage drop | V_{FM} | $I_{FM}=4.0\text{A}$ | 0.58 | V |
| Reverse current | I_{RRM} | $V_R=V_{RRM}$ | 5.0 | mA |
| Thermal resistance | $R_{th(j-c)}$ | Junction to case | 3.0 | $^\circ\text{C}/\text{W}$ |

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■ Characteristics



