

Fast Recovery Rectifier

APT30D40BCT

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|---------------|--------------------------------------|------|------|
| $R_{th\ j-c}$ | Thermal Resistance, Junction to Case | 0.67 | °C/W |

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$) (Pulse Test: Pulse Width=300 μ s, Duty Cycle \leq 2%)

| SYMBOL | PARAMETER | CONDITIONS | MAX | UNIT |
|----------|---------------------------------------|---|-------------------|---------------|
| V_F | Maximum Instantaneous Forward Voltage | $I_F=30\text{A}; T_j=25^\circ\text{C}$ $I_F=30\text{A}; T_j=25^\circ\text{C}$ $I_F=60\text{A}; T_j=125^\circ\text{C}$ | 1.5 1.6 1.2 | V |
| I_R | Maximum Instantaneous Reverse Current | $V_R=400\text{V}; T_j=25^\circ\text{C}$ $V_R=400\text{V}; T_j=125^\circ\text{C}$ | 250 500 | μA |
| t_{rr} | Maximum Reverse Recovery Time | $I_F=30\text{A}; V_R=266\text{V}$ | 95 | ns |

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