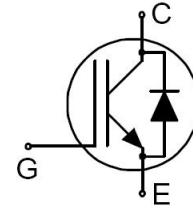


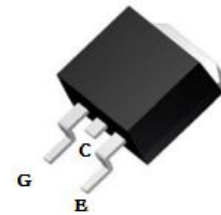
600V , 6A , Trench-FS IGBT

Features

- ◆ Advanced Trench+FS (Field Stop) IGBT technology
- ◆ Low Collector-Emitter Saturation voltage, typical data is 2.1V @ 6A.
- ◆ Easy parallel switching capability due to positive Temperature coefficient in V_{ce} .
- ◆ 10uS Short-Circuit
- ◆ Fast switching
- ◆ High input impedance
- ◆ Pb- Free product



Schematic Diagram



D2pak

Applications

- ◆ Home applications
- ◆ Intelligent power module.

Electrical characteristics($T_J = 25^{\circ}\text{C}$ unless otherwise noted)

| Symbol | Parameter | Test conditions | Units | Min. | Typ. | Max. |
|---------------|---------------------------------------|---|---------|------|------|------|
| $V_{(BR)CES}$ | Collector - Emitter breakdown voltage | $V_{GE} = 0V, I_D = 250\mu A$ | V | 600 | — | — |
| $V_{CE(sat)}$ | Collector-Emitter Saturation voltage | $V_{GE}=15V, I_C=6A, T_C=25^{\circ}\text{C}$ | V | — | 2.1 | 2.4 |
| | | $V_{GE}=15V, I_C=6A, T_C=150^{\circ}\text{C}$ | V | — | 2.3 | — |
| $V_{GE(th)}$ | Gate threshold voltage | $V_{GE}=V_{CE}, I_C = 0.25mA$ | V | 4.0 | 5.4 | 6.5 |
| V_F | Diode forward voltage | $I_F=6A, T_C=25^{\circ}\text{C}$ | V | — | 1.7 | 2.1 |
| | | $I_F=6A, T_C=150^{\circ}\text{C}$ | V | — | 1.3 | — |
| I_{GES} | Gate to Emitter Forward Leakage | $V_{ge}=+30V$ | nA | — | — | 200 |
| I_{GESR} | Gate to Emitter reverse Leakage | $V_{ge}=-30V$ | | -200 | — | — |
| I_{CES} | Zero gate voltage collector current | $V_{CE} = 600V$ | μA | — | — | 25 |

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[RJH60D7BDPQ-E0#T2](#) [APT40GR120B](#)