





## MODULE CHARACTERISTICS

 $T_C=25^{\circ}\text{C}$  unless otherwise specified

| Symbol     | Parameter/Test Conditions   |                                     | Values  | t  |
|------------|-----------------------------|-------------------------------------|---------|----|
| $T_{Jmax}$ | Max. Junction Temperature   |                                     | 175     |    |
| $T_{Jop}$  | Operating Temperature       |                                     | -40~150 |    |
| $T_{stg}$  | Storage Temperature         |                                     | -40~125 |    |
| $V_{isol}$ | Isolation Breakdown Voltage | AC, 50Hz(R.M.S), t=1minute          | 3000    | V  |
|            | to heatsink                 | Recommended $\Delta M6 \text{ \AA}$ | 3~5     | Nm |
| Torque     | to terminal                 | Recommended $\Delta M6 \text{ \AA}$ | 2.5~5   | Nm |
|            | to terminal                 | Recommended $\Delta M4 \text{ \AA}$ | 0.7~1.1 | Nm |
| Weight     |                             |                                     | 330     | g  |



Figure 11. Switching Energy vs Forward  
Current Reverse-Diode

Figure 12. Transient Thermal Impedance of  
IGBT-Inverter and Reverse-Diode