

ELECTRICAL CHARACTERISTICS ($T_J = 25 \, \text{C}$ unless otherwise specified) (continued)

| Parameter | Symbol | Test Conditions | Min | Тур | Max | Unit |
|---------------------------|---------------------|--|-----|------|-----|------|
| SWITCHING CHARACTERISTICS | | | | | | |
| Turn-On Delay Time | t _{d(on)} | $V_{CE} = 600 \text{ V}, V_{GE} = 0/15 \text{ V},$ $I_{C} = 12.5 \text{ A}, R_{G} = 8 \Omega,$ $T_{J} = 175 \text{ C}$ | _ | 42.5 | - | ns |
| Turn-Off Delay Time | t _{d(off)} | | - | 348 | - | |
| Rise Time | t _r | | - | 27.4 | - | |
| Fall Time | t _f | | - | 384 | - | |
| Turn- | · | | • | • | - | • |
| | | | | | | |
| | | | | | | |

TYPICAL CHARACTERISTICS

Figure 1. Output Characteristics

Figure 2. Output Characteristics

TYPICAL CHARACTERISTICS

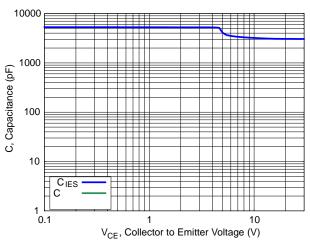


Figure 7. Capacitance Characteristics

Figure 8. Gate Charge Characteristics

TYPICAL CHARACTERISTICS

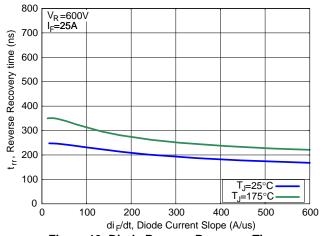


Figure 19. Diode Reverse Recovery Time

Figure 20. Diode Stored Charge Characteristics

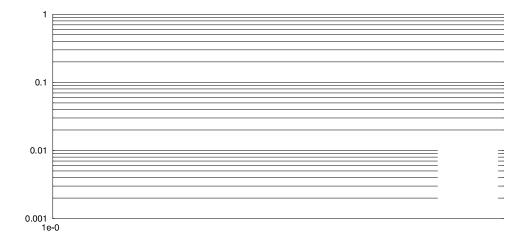


Figure 21. Transient Thermal Impedance of IGBT

TO-247-4LD CASE 340CJ ISSUE A

DATE 16 SEP 2019

Α В Øp1 D2 Α E E1 **A2** Q E/2 D1 D Ø L1 b2 **A1** b1 (3X) Ĺ 1 4 С b(4X) e1 e 2X ⊕ 0.254 M B A M

