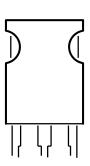
www.



| | | 1 | | |
|-------------------|------------------------|----------------|-----|---|
| | | | 30 | |
| Collector Current | T _C = 25 C | I _C | 80 | Α |
| | T _C = 100 C | 1 | 40 | |
| Power Dissipation | T _C = 25 C | P _D | 652 | W |
| | T _C = 100 C | | 326 | |



Pulsed Collector Current &Z

= Assembly Plant Code = 3-Digit Date Code = 2-Digit Lot Traceability Code = **onsemi** Logo &3 &K

\$Y

AFGHL40T120RWD

ELECTRICAL CHARACTERISTICS (T_J = 25 C unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Тур | Max | Unit |
|--------------------------|---------------------|--|-----|------|-----|------|
| SWITCHING CHARACTERISTIC | s | | I | I | 1 | |
| Turn-On Delay Time | t _{d(on)} | $V_{CE} = 600 \text{ V}, V_{GE} = 0/15 \text{ V},$ $I_{C} = 20 \text{ A}, R_{G} = 4.7 \Omega,$ $T_{J} = 175 \text{ C}$ | _ | 56 | _ | ns |
| Turn-Off Delay Time | t _{d(off)} | | - | 414 | - | 1 |
| Rise Time | t _r | | _ | 41.7 | - | 1 ! |
| Fall Time | t _f | | _ | 375 | - | |
| Turn- | · | | - | - | | - |
| | | | | | | |
| | | | | | | |

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TYPICAL CHARACTERISTICS

Figure 1. Output Characteristics

Figure 2. Output Characteristics

TYPICAL CHARACTERISTICS

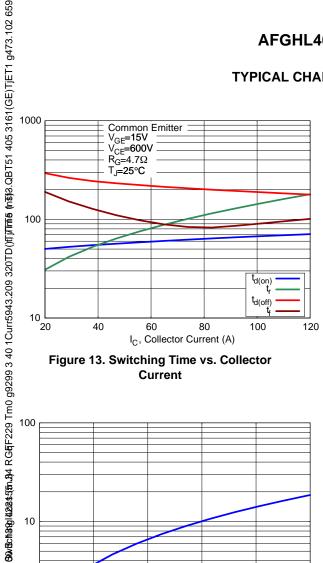


Figure 13. Switching Time vs. Collector Current

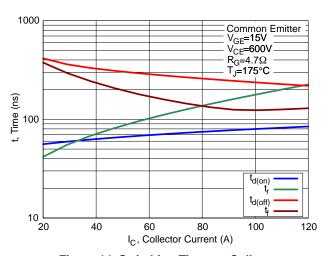


Figure 14. Switching Time vs. Collector Current

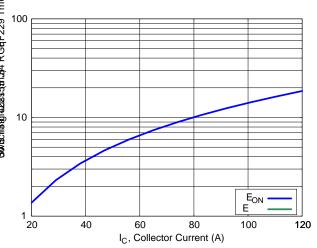


Figure 15. Switching Loss vs. Collector Current

Figure 16. Switching Loss vs. Collector Current

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TYPICAL CHARACTERISTICS

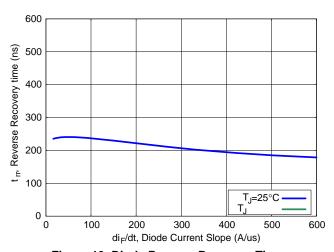


Figure 19. Diode Reverse Recovery Time

Figure 20. Diode Stored Charge Characteristics

