

## Product Overview

### FGH40N60SF\_F085: IGBT, 600V, 40A, 2.3V, TO-247 High Speed, Field Stop

For complete documentation, see the data sheet.

Using Novel Field Stop IGBT Technology, Fairchild's new series of Field Stop IGBTs offer the optimum performance for Automotive Chargers, Inverter, and other applications where low conduction and switching losses are essential.

### Features

- High Current Capability
- Low Saturation Voltage:  $V_{CE(sat)} = 2.3\text{ V @ } I_C = 40\text{ A}$
- High Input Impedance
- Fast Switching
- RoHS Compliant
- Qualified to Automotive Requirements of AEC-Q101

### Part Electrical Specifications

Product	Compliance	Status	$V_{ES}^{(BR)C}$ Typ (V)	$I_C$ Max (A)	$V_{CE(sat)}$ Typ (V)	$V_F$ Typ (V)	$E_{off}$ Typ (mJ)	$E_{on}$ Typ (mJ)	$T_{rr}$ Typ (ns)	$I_{rr}$ Typ (A)	Gate Charge Typ (nC)	Short Circuit Withstand ( $\mu$ s)	$E_{AS}$ Typ (mJ)	$P_D$ Max (W)	Co-Pack aged Diode	Package Type
FGH40N60SFDTU-F085	AEC Qualified PPAP Capable Pb-free	Active	600	80		1.8	0.38	1.23	68	-	121	-	-	290		TO-247-3

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 2/21/2019