

## Product Overview

### FGH60N60SM\_F085: 600V, 60A, 1.8V, TO-247 Field Stop IGBT

For complete documentation, see the data sheet.

Using Novel Field Stop IGBT Technology, Fairchild's new series of Field Stop Trench IGBTs offer the optimum performance for Automotive chargers, Solar Inverter, UPS and Digital PowerGenerator where low conduction and switching losses are essential.

### Features

- Maximum Junction Temperature :  $T_J = 175^\circ\text{C}$
- Positive Temperature Co-efficient for easy parallel operating
- High current capability
- Low saturation voltage:  $V_{CE(sat)} = 1.8V(T_{yp.}) @ I_C = 60A$
- High input impedance
- Tightened Parameter Distribution
- 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)	$I_r$ Typ (A)	Gate Charge Typ (nC)	Short Circuit With stand ( $\mu\text{s}$ )	$E_{AS}$ Typ (mJ)	$P_D$ Max (W)	Co- Pack aged Diode	Pack age Type
FGH60N60SMD-F085	AEC Qualified PPAP Capable Pb-free	Active	600	120		2.1	0.39	1.59	33	-	187	-	-	600		TO- 247-3

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

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