

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 (μ 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.

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