

Product Overview

FGB3040CS_F085: IGBT, 430V, 19A, 1.6V, 300mJ, D2PAK, Current Sensing EcoSPARK® I, N-Channel Ignition

For complete documentation, see the data sheet.

The FGB3040CS is an Ignition IGBT that offers outstanding SCIS capability along with a ratiometric emitter current sensing capability. This sensing is based on a emitter active area ratio of 200:1. The output is provided through a fourth (sense) lead. This signal provides a current level that is proportional to the main collector to emitter current. The effective ratio as measured on the sense lead is a function of the sense output, the collector current and the gate to emitter drive voltage.

Features

- SCIS Energy = 300mJ at $T_J = 25^\circ\text{C}$
- Logic Level Gate Drive
- Qualified to AEC Q101
- RoHS Compliant

Applications

- Body Electronics

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 (μs)	E_{AS} Typ (mJ)	P_D Max (W)	Co-Packaged Diode	Pack age Type
FGB3040CS	AEC Qualified PPAP Capable Pb-free	Active	430	19	1.85	-	-	-	1500	-	15	-	-	150	Yes	D2PAK-6 / TO-263-6

For more information please contact your local sales support at www.onsemi.com.

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