

Product Overview

FGB3245G2_F085: IGBT, 450V, 23A, 1.3V, 320mJ, EcoSPARK® II, N-Channel Ignition

For complete documentation, see the data sheet.

The FGB3245G2_F085 and FGD3245G2 are N-channel IGBTs designed in Fairchild's EcoSPARK® 2 technology, which helps in eliminating external protection circuitry. The technology is optimized for driving the coil in the harsh environment of automotive ignition systems and offers outstanding V_{sat} and SCIS Energy capability also at elevated operating temperatures. The logic level gate input is ESD protected and features an integrated gate resistor. An integrated zener-circuitry clamps the IGBT's collector-to-emitter voltage at 450 V, which enables systems requiring a higher spark voltage.

Features

- SCIS Energy = 320 mJ at $T_J = 25^\circ\text{C}$
- Logic Level Gate Drive
- Low Saturation Voltage
- Qualified to AEC Q101
- RoHS Compliant

Applications

- Ignition systems

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	$V_{(BR)CES}$ 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	Package Type
FGB3245G2-F085	1.2069	AEC Qualified PPAP Capable Pb-free Halide free	Active	450			-	-	-	2600	-	-	-	-	150	Yes	D2P AK-3 / TO-263-2
FGB3245G2-F085C		AEC Qualified PPAP Capable Pb-free Halide free	Product Review														D2P AK-3 / TO-263-2

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

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