

Product Overview

ISL9V2040D_F085: IGBT, 430V, 10A, 1.95V, 200mJ, DPAK EcoSPARK® I, N-Channel Ignition

For complete documentation, see the data sheet.

The ISL9V2040D3S, ISL9V2040S3S, and ISL9V2040P3 are the next generation ignition IGBTs that offer outstanding SCIS capability in the space saving D-Pak (TO-252), as well as the industry standard D²-Pak (TO-263) and TO-220 plastic packages. This device is intended for use in automotive ignition circuits, specifically as a coil driver. Internal diodes provide voltage clamping without the need for external components. EcoSPARK® devices can be custom made to specific clamp voltages. Contact your nearest Fairchild sales office for more information.

Features

- Space-Saving D - Pak Package Available
- SCIS Energy = 200 mJ at T_J = 25°C
- Logic Level Gate Drive

Part Electrical Specifications

Product	Compliance	Status	V _{ES} ^{(BR)C} Typ (V)	I _C Max (A)	V _{GE(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- Pack aged Diode	Pack age Type
ISL9V2040D3ST	AEC Qualified PPAP Capable Pb-free	Active	400	10	1.9	-	-	-	2170	-	12	-	-	130	-	DPA K-3 / TO- 252-3

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

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