

Product Overview

ISL9V3040P3: IGBT, 400V, 17A, 1.58V, 300mJ, TO-220 EcoSPARK® I, N-Channel Ignition

For complete documentation, see the data sheet.

The ISL9V3040D3S, ISL9V3040S3S, ISL9V3040P3, and ISL9V3040S3 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-262 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.

Features

- Space saving D-Pak package availability
- SCIS Energy = 300mJ at TJ = 25oC
- 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 (μ s)	E_{AS} Typ (mJ)	P_D Max (W)	Co- Pack aged Diode	Pack age Type
ISL9V3040P3	AEC Qualified PPAP Capable Pb-free	Active	400	17	1.6	-	-	-	2100	-	17	-	-	150	-	TO-220-3

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

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