

## 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 D<sup>2</sup>-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 ( $\mu$ 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](http://www.onsemi.com).

Created on: 7/20/2019