

## Product Overview

### ISL9V2540S\_F085: 430V, 15A, 1.77V, 250mJ, D2PAK EcoSPARK® I, N-Channel Ignition IGBT

For complete documentation, see the data sheet.

The ISL9V2540S3ST is a next generation ignition IGBT that offers outstanding SCIS capability in the industry standard D<sup>2</sup>-Pak (TO-263) plastic package. 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

- SCIS Energy = 250mJ at  $T_{J} = 25^{\circ}\text{C}$
- Logic Level Gate Drive
- Qualified to AEC Q101
- RoHS Compliant

### 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)	$I_r$ Typ (A)	Gate Charge Typ (nC)	Short Circuit Withstand ( $\mu\text{s}$ )	$E_{AS}$ Typ (mJ)	$P_D$ Max (W)	Co- Pack aged Diode	Pack age Type
ISL9V2540S3ST	AEC Qualified PPAP Capable Pb-free	Active	400	15	1.8	-	-	-	2170	-	15.1	-	-	166.7	-	D2PAK-3 / TO-263-2

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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