

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 D²-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 (μs)	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.

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