

## Product Overview

### ISL9V5036P\_F085: IGBT, 360V, 31A, 1.17V, 500mJ, TO-220 EcoSPARK® I, N-Channel Ignition

For complete documentation, see the data sheet.

The ISL9V5036P3\_F085 is the next generation IGBT that offer outstanding SCIS capability in the TO-220 plastic package. This device is intended for use in automotive ignition circuit, specifically as coil driver. Internal diode provide voltage clamping without the need for external component.

### Features

- Industry Standard TO-220 package
- SCIS Energy = 500mJ at  $T_J = 25^\circ\text{C}$
- Logic Level Gate Drive
- Qualified to AEC Q101
- RoHS Compliant

### Applications

- Body Electronics

### 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)	$I_{rr}$ Typ (A)	Gate Charge Typ (nC)	Short Circuit Withs tand ( $\mu\text{s}$ )	$E_{AS}$ Typ (mJ)	$P_D$ Max (W)	Co- Pack aged Diode	Pack age Type
ISL9V5036P3-F085	AEC Qualified PPAP Capable Pb-free	Active	360			-	-	-	2100	-	32	-	-	250	-	TO- 220-3

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

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