

Product Overview

ISL9R1560P_F085: 600V, 15A, 1.65V, TO-220 (2-lead) Stealth™ Rectifier

For complete documentation, see the data sheet.

The ISL9R1560P2_F085 is a Stealth™ diode with soft recovery characteristics ($t_{rr} < 30\text{ns}$). It has a low forward voltage drop and is of silicon nitride passivated, ionimplanted, epitaxial construction. This device is intended for use as a freewheel/clamping diode in various automotive switching power supplies and other power switching applications. Its low stored charge as well as Stealth™ and soft recovery characteristics minimize ringing and electrical noise while reduce the overall power loss.

Features

- High Speed Switching ($t_{rr}=30\text{ns(Typ.)}$ @ $I_F=15\text{A}$)
- Low Forward Voltage($V_F=2.2\text{V(Max.)}$ @ $I_F=15\text{A}$)
- Avalanche Energy Rated
- AEC-Q101 Qualified

Part Electrical Specifications

Product	Compliance	Status	Type	$I_{Q(\text{rec})}$ Max (A)	t_{rr} Max (ns)	V_{RRM} Max (V)	V_{FM} Max (V)	I_{FSM} Max (A)	I_R Max (mA)	Package Type
ISL9R1560P2-F085	AEC Qualified PPAP Capable Pb-free	Active	Single	15	40	600	2.2	45	0.1	TO-220-2

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

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