

Product Overview

ISL9R3060G_F085: 600V, 30A, 2.0V, TO-247 (2-lead) Stealth™ Rectifier

For complete documentation, see the data sheet.

The ISL9R3060G2_F085 is Stealth™ diode optimized for low loss performance in high frequency hard switched applications. The Stealth™ family exhibits low reverse recovery current (I_{RRM}) and exceptionally soft recovery under typical operating conditions. This device is intended for use as a free wheeling or boost diode in power supplies and other power switching applications. The low I_{RRM} and short t_a phase reduce loss in switching transistors. The soft recovery minimizes ringing, expanding the range of conditions under which the diode may be operated without the use of additional snubber circuitry. Consider using the Stealth™ diode with an SMPS IGBT to provide the most efficient and highest power density design at lower cost.

Features

- High Speed Switching ($t_{rr}=31\text{ns(Typ.)}$ @ $I_F=30\text{A}$)
- Low Forward Voltage($V_F=2.4\text{V(Max.)}$ @ $I_F=30\text{A}$)
- 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
ISL9R3060G2-F085	AEC Qualified PPAP Capable Pb-free	Active	Single	30	45	600	2.4	90	0.1	TO-247-2

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

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