

## AFGB30T65SQDN

# IGBT 650V FS4 High speed version for OBC application in D2PAK

### Product Overview

For complete documentation, see the data sheet.

Using the novel field stop 4th generation IGBT technology and AEC-Q101 Qualified. AFGB30T65SQDN offers the optimum performance with both low conduction loss and switching loss for a high efficiency operation in various applications.

#### Features

- AEC-Q101 Qualified
- $V_{CE(sat)} = 1.6\text{ V (typ.) @ } I_C = 30\text{ A}$
- Low  $V_F$  soft recovery co-packaged diode

#### Applications

- Automotive On Board Charger
- Automotive DC/DCC converter for HEV

#### Benefits

- For Automotive
- Low conduction loss
- Low noise and conduction loss

#### End Products

- EV/PHEV

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	$V_{CES}^{(BR)}$ 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-Packaged Diode	Package Type
AFGB30T65SQDN	2.2571		Active	650	30	1.6	1.5	0.16	0.786	131		56	-	-	220	Yes	D2PAK-3 / TO-263-2