

## Product Overview

### AFGB40T65SQDN: IGBT, 650V FS4 High speed version, for OBC application in D2pak

For complete documentation, see the data sheet.

Using the novel field stop 4th generation IGBT technology and AEC-Q101 Qualified. AFGB40T65SQDN offers the optimum performance with both low conduction loss and switching loss for a high efficiency operation in various applications.

#### Features

- AEC-Q101 qualified
- $V_{CE(sat)} = 1.6 \text{ V (typ.) @ } I_C = 40 \text{ A}$
- Low  $V_F$  soft recovery co-packaged diode

#### Applications

- Automotive On Board Charge
- Automotive DC/DC converter for HEV

#### Benefits

- For automotive
- Low conduction loss
- Low noise and conduction loss

#### End Products

- EV/PHEV

### 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 ( $\mu$ s)	$E_{AS}$ Typ (mJ)	$P_D$ Max (W)	Co-Packaged Diode	Package Type
AFGB40T65SQDN	AEC Qualified PPAP Capable Pb-free	NEW	650	40	1.6	1.5	0.229	0.858	131		76	-	-	238	Yes	D2PAK-3 / TO-263-2

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

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