

## Product Overview

### PCGA300T65DF8: IGBT, 650 V, 300 A Field Stop Trench

For complete documentation, see the data sheet.

PCGA300T65DF8

### Features

- AEC-Q101 Qualified
- Max Junction Temperature 175°C
- Positive Temperature Co-efficient
- Ease of Paralleling
- Short Circuit Rated
- Very Low Saturation Voltage:  $V_{CESAT} = 1.36V(Typ.) @ I_C = 300A$
- Optimized for Motor Control Applications
- Intergrated Temp Sensor and Current Sensor

### 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 Withstand ( $\mu$ s)	$E_{AS}$ Typ (mJ)	$P_D$ Max (W)	Co- Pack aged Diode	Pack age Type
PCGA300T65DF8	AEC Qualified PPAP Capable Pb-free Halide free	Active	650	-	1.15	-	-	-	-	-	312	5	-	-	No	

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

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