

## Product Overview

### FGA20N120FTD: IGBT, 1200V, 20A, Field Stop Trench

For complete documentation, see the data sheet.

Using advanced field stop trench technology, Fairchild's 1200V trench IGBTs offer superior conduction and switching performances for soft switching applications. The device can operate in parallel configuration with exceptional avalanche ruggedness. This device is designed for induction heating and microwave oven.

### Features

- Field stop trench technology
- High speed switching
- Low saturation voltage:  $V_{CE(sat)} = 1.6V @ I_C = 20A$
- High input impedance
- RoHS compliant

### Applications

- Consumer Appliances

### 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 Withs tand ( $\mu$ s)	$E_{AS}$ Typ (mJ)	$P_D$ Max (W)	Co- Pack aged Diode	Pack age Type
FGA20N120FTDTU	Pb-free	Active	1200	20	1.6	1.3	0.71	0.42	485	48	137	-	-	298	Yes	TO-3P-3L

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

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