

## Product Overview

### FGA30S120P: IGBT, 1300V, 30A, Shorted-anode

For complete documentation, see the data sheet.

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

### Features

- High speed switching
- Low saturation voltage:  $V_{CE(sat)} = 1.75V @ I_C = 30A$
- 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 Withstand ( $\mu$ s)	$E_{AS}$ Typ (mJ)	$P_D$ Max (W)	Co- Pack aged Diode	Package Type
FGA30S120P	Pb-free	Active	1300	30	1.75	1.7	1.22	1.3	-	-	78	-	-	348	Yes	TO-3P-3L

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