

Product Overview

FGAF40N60SMD: IGBT, 600V, 40A, Field Stop

For complete documentation, see the data sheet.

Using novel field stop IGBT technology, Fairchild's new series of field stop 2nd generation IGBTs offer the optimum performance for consumer appliances, motion control and home appliances where low conduction and switching losses are essential.

Features

- Maximum junction temperature : $T_J = 175^\circ\text{C}$
- Positive temperature co-efficient for easy parallel operating
- High current capability
- Low saturation voltage: $V_{CE(sat)} = 1.9\text{V(Typ.)} @ I_C = 40\text{A}$
- High input impedance
- Fast switching: $E_{OFF} = 6.5\mu\text{J/A}$
- Tightened parameter distribution
- RoHS compliant

Applications

- Consumer Appliances
- Motion Control - Home Appliance

Part Electrical Specifications

Product	Compliance	Status	V_{ES} 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 (μs)	E_{AS} Typ (mJ)	P_D Max (W)	Co- Pack aged Diode	Pack age Type
FGAF40N60SMD	Pb-free	Active	600	40	1.9	2.3	0.26	0.87	110	-	119	-	-	115	Yes	TO-3PF-3L

For more information please contact your local sales support at www.onsemi.com.

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