

Product Overview

FGA40T65SHD: IGBT, 650 V, 40 A Field Stop Trench

For complete documentation, see the data sheet.

Using novel field stop IGBT technology, Fairchild's new series of field stop 3rd generation IGBTs offer the optimum performance for solar inverter, UPS, welder, telecom, ESS and PFC applications 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: $V_{CE(sat)} = 1.6\text{ V(Typ.) @ } I_C = 40\text{ A}$
- 100% of the Parts Tested for ILM(1)
- High Input Impedance
- Fast Switching
- Tighten Parameter Distribution
- RoHS Compliant

Part Electrical Specifications

Product	Compliance	Status	$V_{ES}^{(BR)C}$ Typ (V)	I_C Max (A)	$V_{GE(sat)}$ 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	Package Type
FGA40T65SHD	Pb-free Halide free	Active	650	40	1.6	2.2	0.297	1.01	192	-	72.2	-	-	268	Yes	TO-3P-3L

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

Created on: 9/23/2019