

Product Overview

FGL12040WD: IGBT, 1200 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 2nd generation IGBTs offer the optimum performance for welder applications where low conduction and switching losses are essential.

Features

- Maximum Junction Temperature : $T_J = 150^\circ\text{C}$
- Positive Temperature Co-efficient for Easy Parallel Operating
- Low Saturation Voltage: $V_{CE(sat)} = 2.3\text{ V @ } I_C = 40\text{ A}$
- 100% of The Parts Tested for ILM(1)
- Short Circuit Ruggedness > 5 $\mu\text{s @ } 150^\circ\text{C}$
- High Input Impedance
- RoHS Compliant

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_r 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
FGL12040WD	Pb-free	Active	1200	40	2.3	3.6	1	4.1	71	14	226	-	-	391	Yes	TO-264-3

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

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