imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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FAIRCHILD

February 2010

FFB20UP20DN_F085 10A, 200V Ultrafast Dual Rectifiers

FFB20UP20DN_F085 10A, 200V Ultrafast Dual Rectifiers

Features

- High Reverse Voltage : V_{RRM} = 200V
- Avalanche Energy Rated
- Planar Construction

Applications

- Output Rectifiers
- Switching Mode Power Supply
- Free-wheeling diode for motor application
- Power switching circuits
- Qualified to AEC Q101

Pin Assignments

RoHS Compliant

No HS COMPLIA

Description

the switching transistors.

The FFB20UP20DN_F085 is an ultrafast rectifier. It has

This device is intended for use as a freewheeling/clamping rectifier in a variety of switching power supplies and other

power switching applications. Its low stored charge and hyperfast recovery minimize ringing and electrical noise in

many power switching circuits, thus reducing power loss in

ion-implanted epitaxial planar construction.

a low forward voltage drop and is a silicon nitride passivated

1. Anode 2. Cathode 3. Anode

Absolute Maximum Ratings $T_C = 25^{\circ}C$ unless otherwise noted

2

1 Anode 2 Cathode 3 Anode

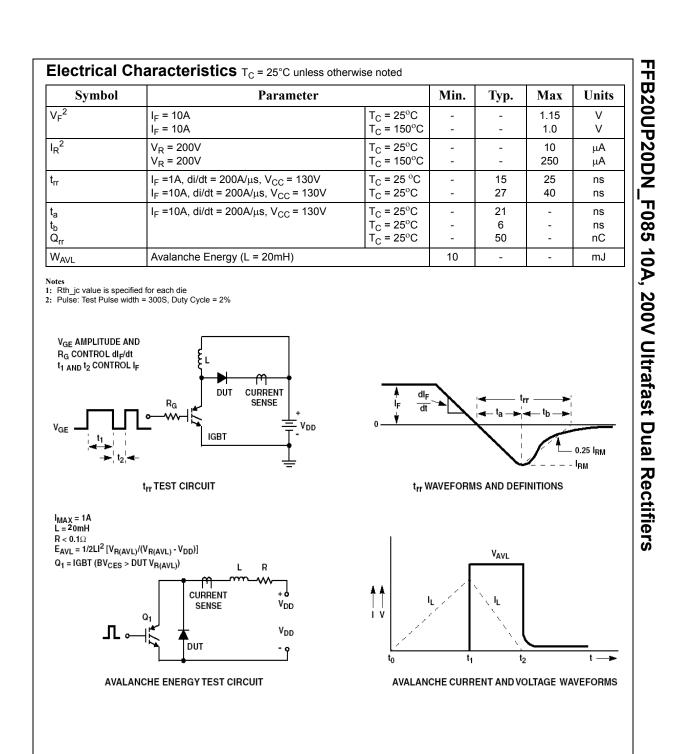
Symbol	Parameter	Ratings	Units	
V _{RRM}	Peak Repetitive Reverse Voltage		200	V
V _{RWM}	Working Peak Reverse Voltage		200	V
V _R	DC Blocking Voltage		200	V
I _{f(avg)}	Average Rectified Forward Current	@ T _C = 155°C	10	А
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave		100	A
T _{J,} T _{STG}	Operating Junction and Storage Temperature		-55 to +175	°C

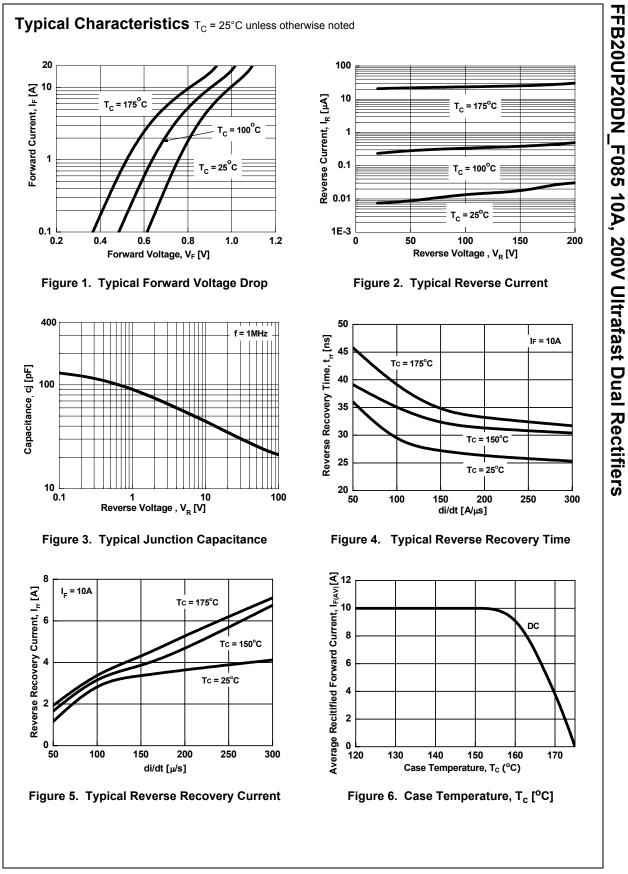
Thermal Characteristics T_C = 25°C unless otherwise noted

Symbol	Parameter	Мах	Units
$R_{\theta JC}^{1}$	Maximum Thermal Resistance, Junction to Case	3.5	°C/W

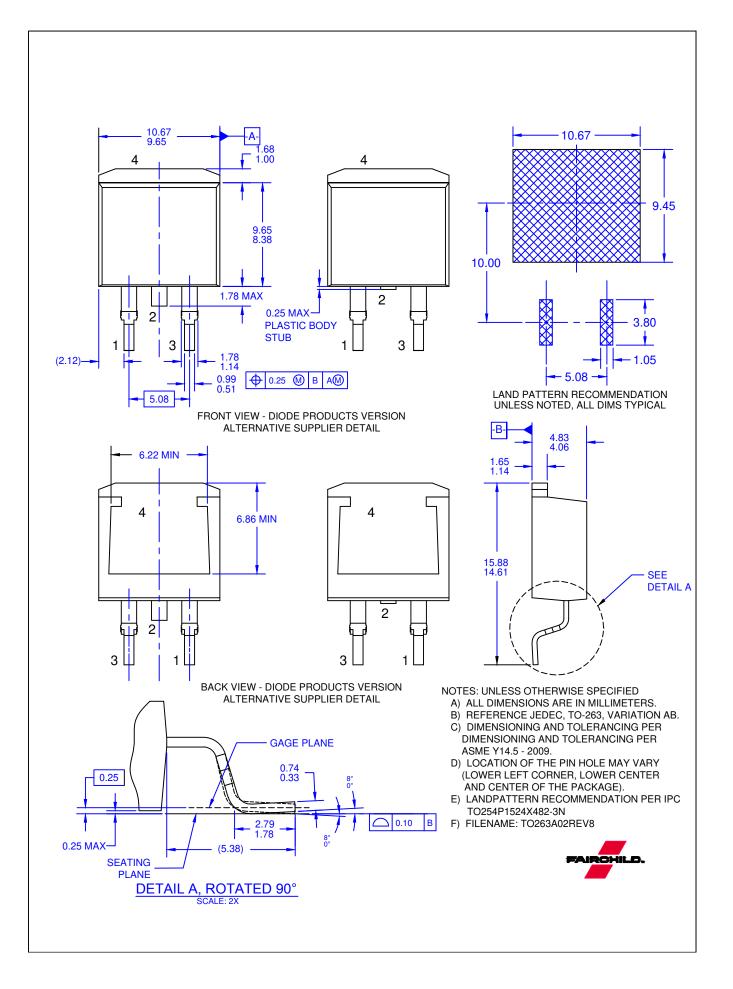
Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
F20UP20DN	FFB20UP20DN_F085	TO-263	13"	24mm	800





FFB20UP20DN_F085 Rev. A



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