

## **Thermal Characteristics**

Symbol	Parameter	Мах	Units
$R_{\thetaJC}$	Maximum Thermal Resistance, Junction to Case	2.0	°C/W

## Package Marking and Ordering Information

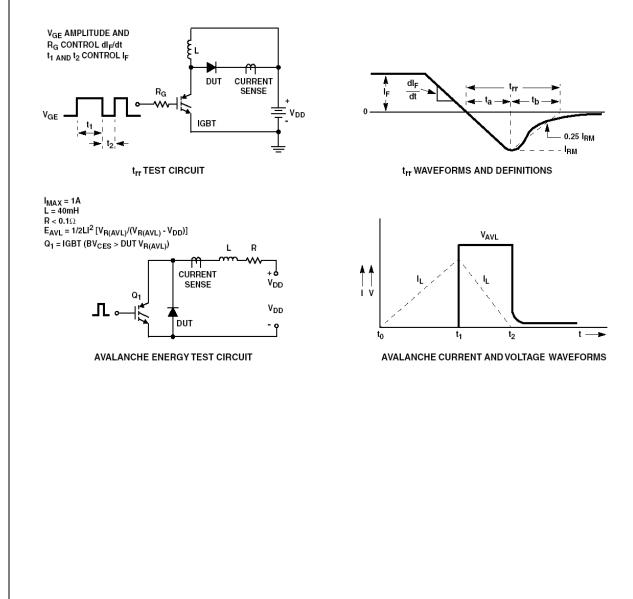
Device Marking	Device	Package	Reel Size	Tape Width	Quantity
F20UP20S	FFB20UP20STM	D2-PAK	13" Dia	-	800

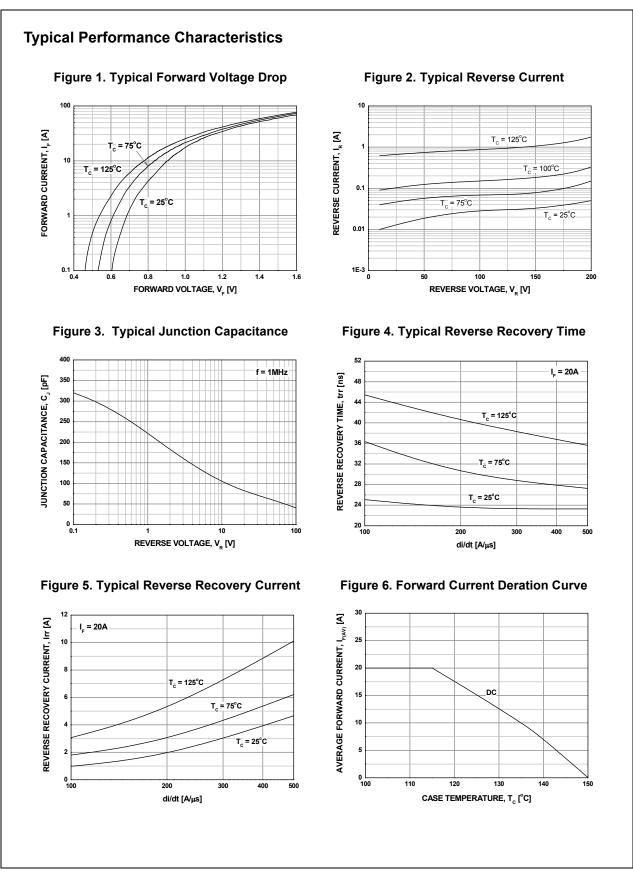
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Symbol	Parameter		Min.	Тур.	Max.	Units
V <sub>FM</sub> *	I <sub>F</sub> = 20A I <sub>F</sub> = 20A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	1.15 1.0	V V
I <sub>RM</sub> *	V <sub>R</sub> = 200V V <sub>R</sub> = 200V	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	100 500	μΑ μΑ
t <sub>rr</sub>	$I_F$ =1A, di/dt = 100A/µs, V <sub>CC</sub> = 30V $I_F$ =20A, di/dt = 200A/µs, V <sub>CC</sub> = 130V	T <sub>C</sub> = 25 °C T <sub>C</sub> = 25 °C	-	- -	35 45	ns ns
t <sub>a</sub> t <sub>b</sub> Q <sub>rr</sub>	I <sub>F</sub> =20A, di/dt = 200A/μs, V <sub>CC</sub> = 130V	T <sub>C</sub> = 25 °C T <sub>C</sub> = 25 °C T <sub>C</sub> = 25 °C T <sub>C</sub> = 25 °C	- - -	11 13 21	- - -	ns ns nC
W <sub>AVL</sub>	Avalanche Energy (L = 40mH)		20	-	-	mJ

\* Pulse Test: Pulse Width=300  $\mu s,$  Duty Cycle=2%

# **Test Circuit and Waveforms**

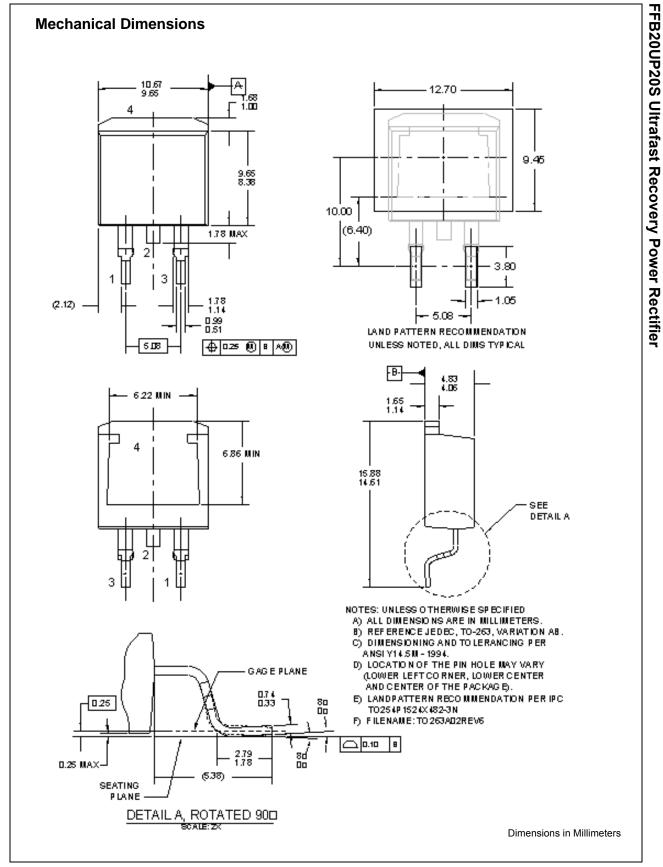




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FFB20UP20S Ultrafast Recovery Power Rectifier



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