

Absolute Maximum Ratings T_C = 25°C unless otherwise noted

Symbol	Parameter	Ratings	Units	
V _{RRM}	Peak Repetitive Reverse Voltage	200	V	
I _{F(AV)}	Average Rectified Forward Current $@ T_C = 123^{\circ}C$	20	Α	
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	200	А	
T _J , T _{STG}	Operating and Storage Temperature Range	-65 to +150	°C	

Thermal Characteristics

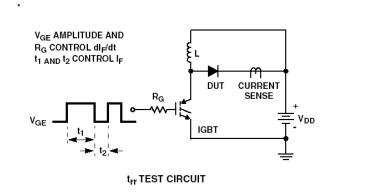
Γ	Symbol	Parameter	Ratings	Units
	R _{θJC}	Maximum Thermal Resistance, Junction to Case	1.9	°C/W

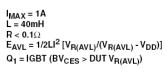
Package Marking and Ordering Information

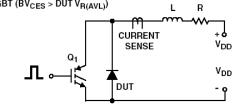
Device Marking	Device	Package	Reel Size	Tape Width	Quantity
F20UP20S	FFD20UP20S	D-PAK	13" Dia	-	2500

FFD20UP20S

Symbol	Parameter		Min.	Тур.	Max.	Units
V _{FM} *	Maximum Instantaneous Forward Voltage $I_F = 20A$ $I_F = 20A$ $I_F = 30A$	$T_{C} = 25^{\circ}C$ $T_{C} = 100^{\circ}C$ $T_{C} = 25^{\circ}C$	- - -	0.94 0.84 1.00	1.15 1.05 -	v
I _{RM} *	Maximum Instantaneous Reverse Current @ rated V _R	$T_{\rm C} = 25^{\rm o}{\rm C}$ $T_{\rm C} = 100^{\rm o}{\rm C}$	-	-	100 500	μA
t _{rr}	Reverse Recovery Time (I _F = 20A, di/dt = 200A/µs)		-	22	45	ns
W _{AVL}	Avalanche Energy (L = 40mH)		20	-	-	mJ

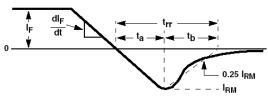




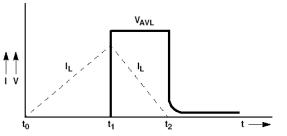


AVALANCHE ENERGY TEST CIRCUIT

Test Circuit and Waveforms



trr WAVEFORMS AND DEFINITIONS

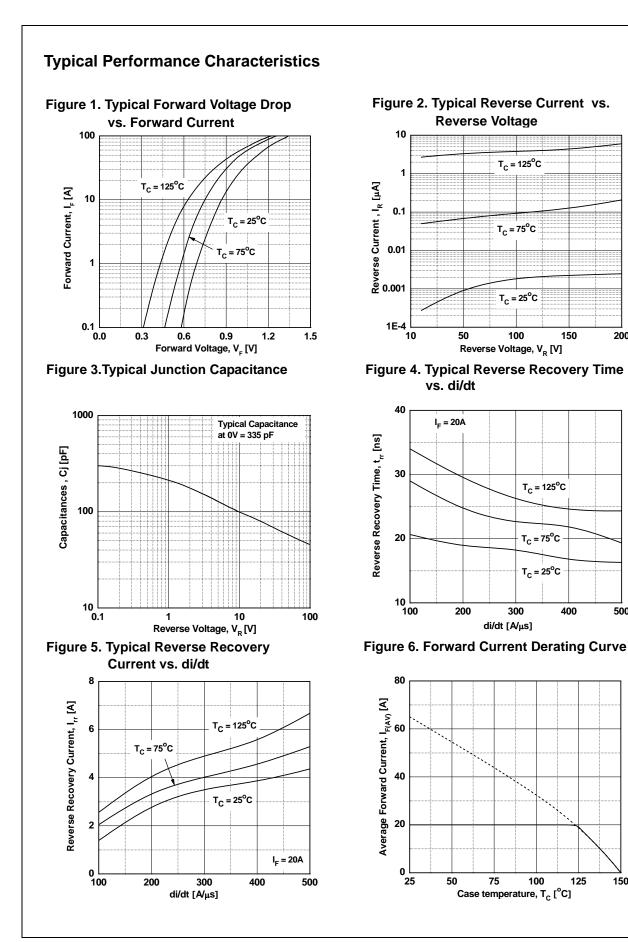


AVALANCHE CURRENT AND VOLTAGE WAVEFORMS

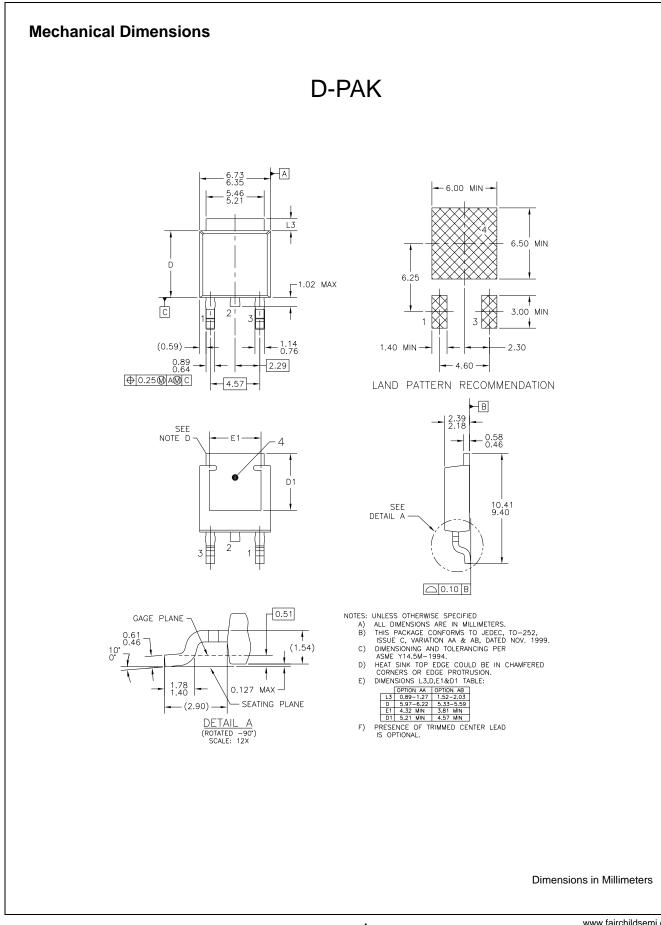
FFD20UP20S

200

500



150



FFD20UP20S



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