



ULTRA FAST RECOVERY POWER RECTIFIER

Absolute Maximum Ratings (per diode) T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	1200	V
I _{F(AV)}	Average Rectified Forward Current $@T_{C} = 100^{\circ}C$	20	A
I _{FSM}	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	120	A
T _{J,} T _{STG}	Operating Junction and Storage Temperature	- 65 to +150	°C

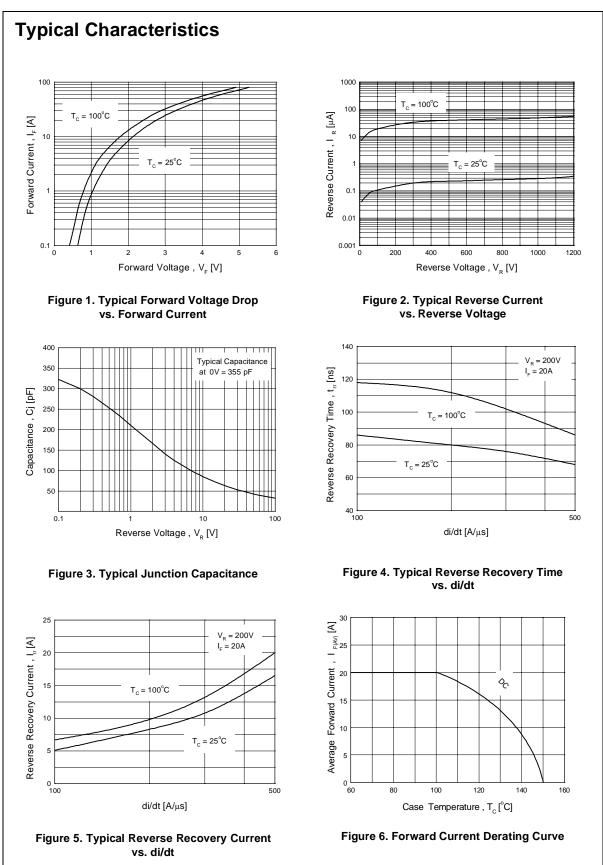
Thermal Characteristics

Symbol	Parameter	Value	Units
R _{θJC}	Maximum Thermal Resistance, Junction to Case	0.84	°C/W

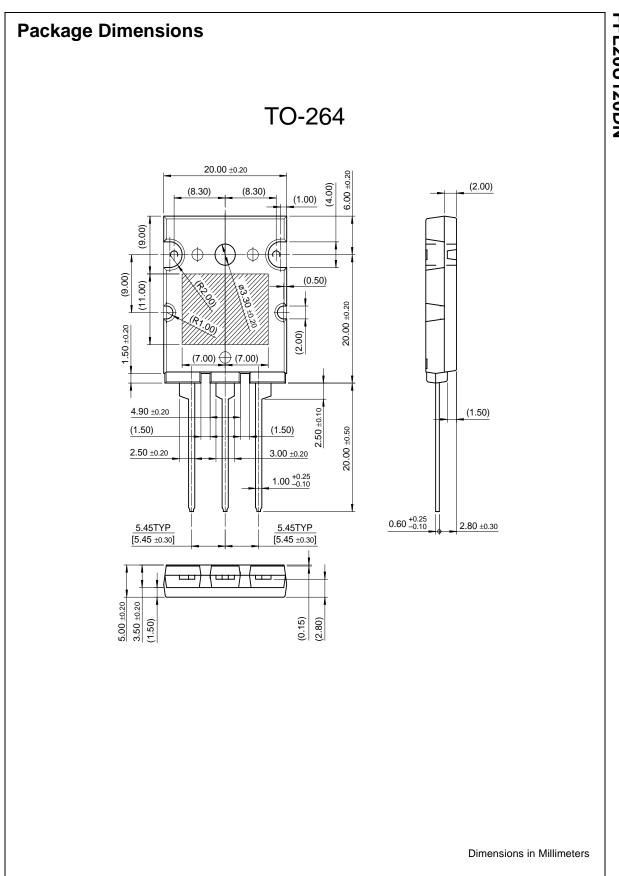
Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max. 3.5 3.2	Units V
V _{FM} *	Maximum Instantaneous Forward Voltage I _F = 20A I _F = 20A	T _C = 25 °C T _C = 100 °C	= 25 °C - = 100 °C -			
RM *	Maximum Instantaneous Reverse Current @ rated V _R	T _C = 25 °C T _C = 100 °C	-	-	20 1.2	μA mA
n n Qn	Maximum Reverse Recovery Time Maximum Reverse Recovery Current Maximum Reverse Recovery Charge $(I_F = 20A, di/dt = 200A/\mu s)$		- - -	- - -	120 10 500	ns A nC
W _{AVL}	Avalanche Energy		1.0	-	-	mJ

* Pulse Test: Pulse Width=300µs, Duty Cycle=2%



FFL20U120DN



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