

# **ULTRA FAST RECOVERY POWER RECTIFIER**

## Absolute Maximum Ratings (per diode) T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	400	V
I <sub>F(AV)</sub>	Average Rectified Forward Current $@T_{C} = 100^{\circ}C$	15	А
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	150	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and StorageTemperature	- 65 to +150	°C

## **Thermal Characteristics**

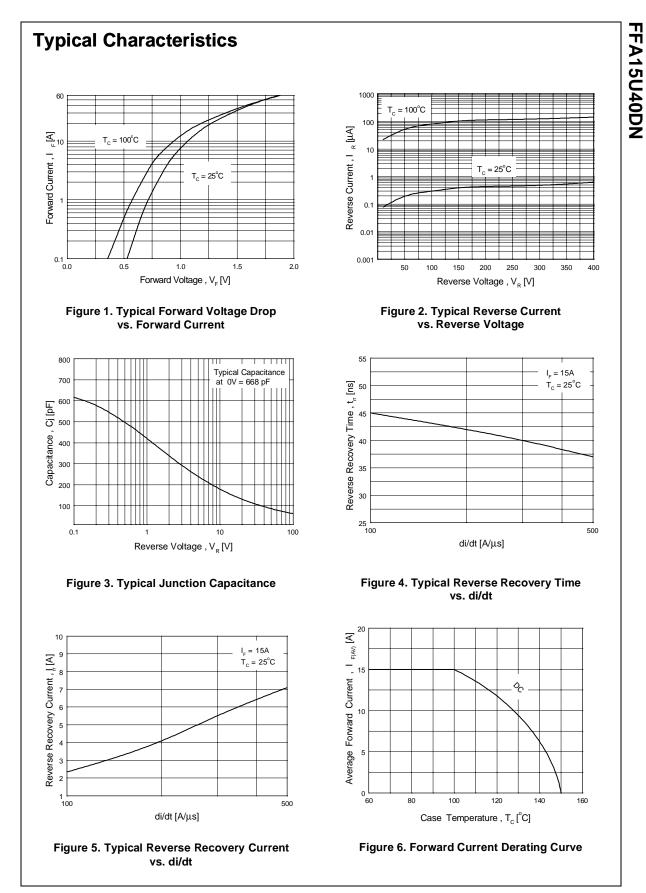
Symbol	Parameter	Value	Units	
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	3.0	°C/W	

## Electrical Characteristics (per diode) T<sub>C</sub>=25 °C unless otherwise noted

Symbol	Parameter		Min.	Тур.	Max.	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage					V
	I <sub>F</sub> = 15A	T <sub>C</sub> = 25 °C	-	-	1.4	
	I <sub>F</sub> = 15A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	1.3	
RM *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	40	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	400	
rr	Maximum Reverse Recovery Time		-	-	50	ns
rr	Maximum Reverse Recovery Current		-	-	5.0	Α
Q <sup>II</sup>	Maximum Reverse Recovery Charge (I <sub>F</sub> =15A, di/dt = 200A/μs)		-	-	125	nC
W <sub>AVL</sub>	Avalanche Energy		1.0	-	-	mJ

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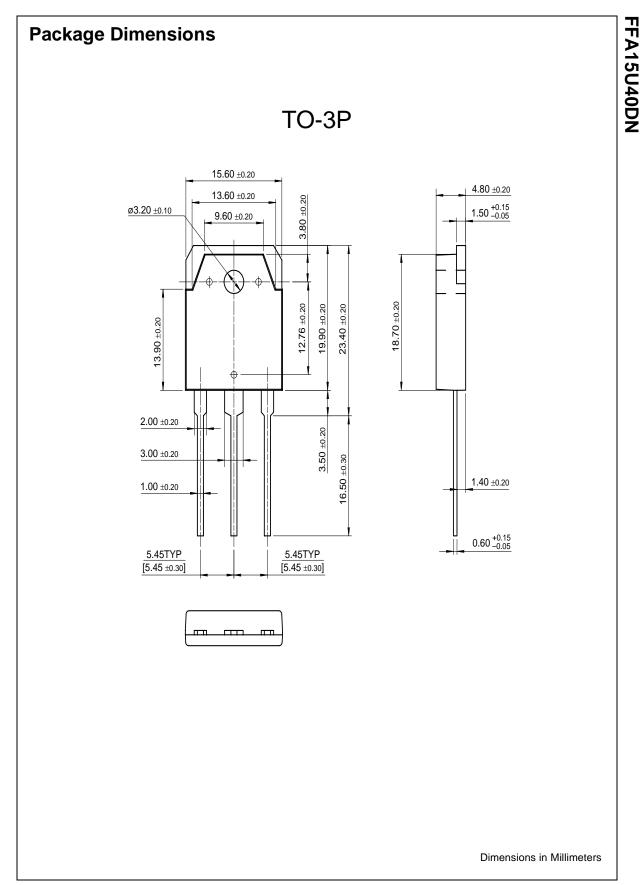
Rev. F, September 2000



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