

# ULTRA FAST RECOVERY POWER RECTIFIER

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

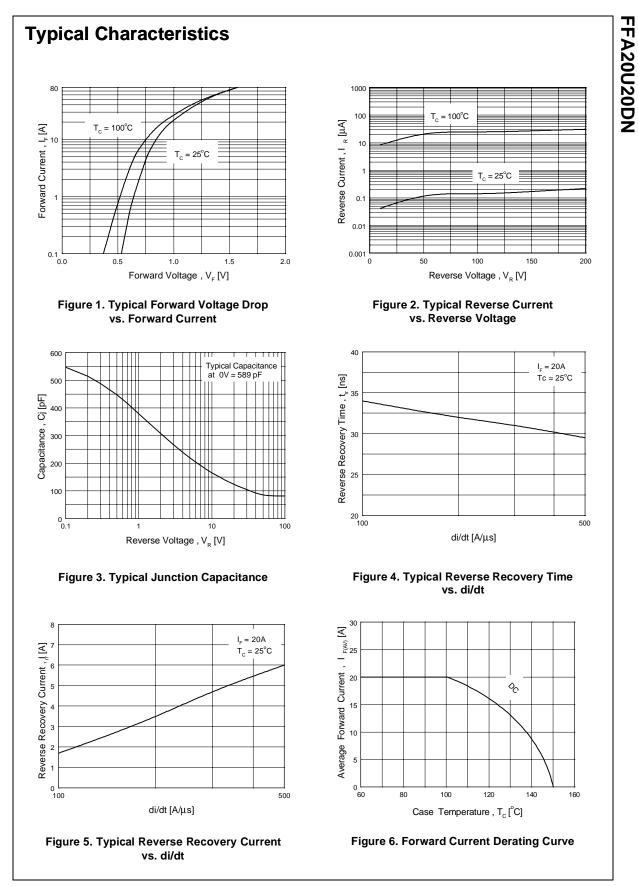
Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	200	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @ T <sub>C</sub> = 100°C	20	Α
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	200	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	- 65 to +150	°C

# **Thermal Characteristics**

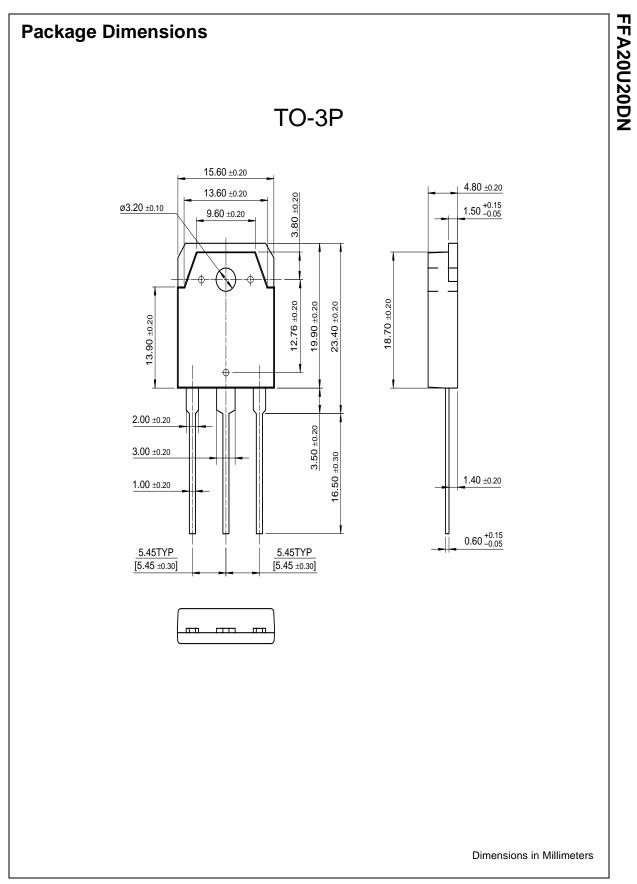
Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	2.0	°C/W

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

Symbol	Parameter		Min.	Тур.	Max.	Units V
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage	rward Voltage				
	I <sub>F</sub> = 20A	T <sub>C</sub> = 25 °C	-	-	1.2	
	I <sub>F</sub> = 20A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	1.0	
RM *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	20	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 100 °C	-	-	200	
rr	Maximum Reverse Recovery Time		-	-	40	ns
rr	Maximum Reverse Recovery Current		-	-	4.0	А
Q <sub>rr</sub>	Maximum Reverse Recovery Charge (I <sub>F</sub> =20A, di/dt = 200A/μs)		-	-	80	nC
W <sub>AVL</sub>	Avalanche Energy		0.5	-	-	mJ



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QFET™ QS™ QT Optoelectronics<sup>™</sup> Quiet Series™ SuperSOT™-3 SuperSOT™-6 SuperSOT<sup>™</sup>-8 SyncFET™ TinyLogic™ UHC™

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