

# DAMPER DIODE

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

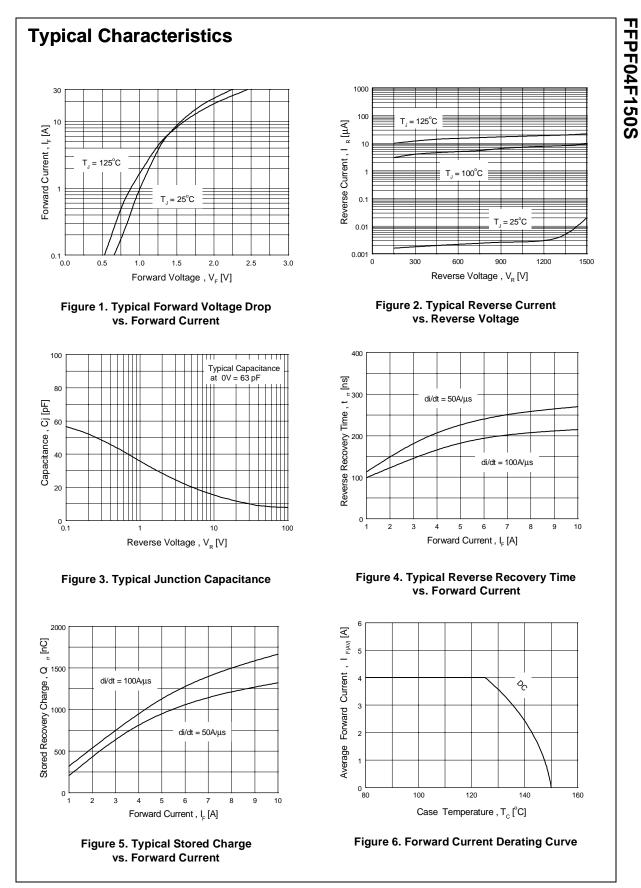
Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage	1500	V
I <sub>F(AV)</sub>	Average Rectified Forward Current $@T_{C} = 125^{\circ}C$	4	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	40	A
T <sub>J,</sub> T <sub>STG</sub>	Operating Junction and StorageTemperature	- 65 to +150	°C

# **Thermal Characteristics**

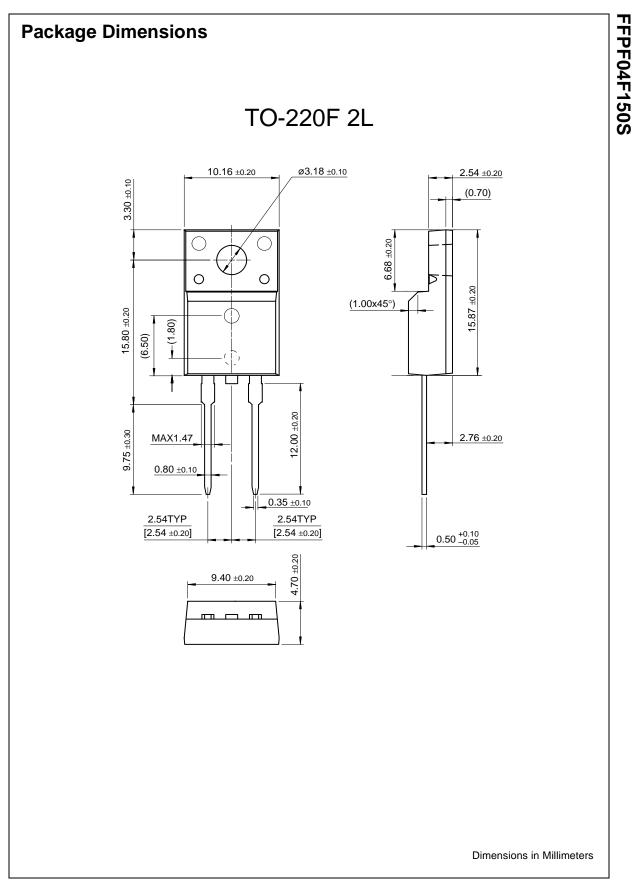
Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	5.0	°C/W

## Electrical Characteristics 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> = 4A	T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	-	-	1.5	
	$I_F = 4A$	T <sub>C</sub> = 125 °C	-	-	1.4	
I <sub>RM</sub> *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	-	-	5	
		T <sub>C</sub> = 25  °C T <sub>C</sub> = 125 °C	-	-	250	
t <sub>rr</sub>	Maximum Reverse Recovery Time		-	-	170	ns
	$(I_F = 1A, di/dt = 50A/\mu s)$					
t <sub>fr</sub>	Maximum Forward Recovery Time		-	-	450	ns
	(I <sub>F</sub> =6.5A, di/dt = 50A/μs)					
V <sub>FRM</sub>	Maximum Forward Recovery Voltage		-	-	19	V



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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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