

# FFPF30U60DN

## **Features**

- High voltage and high reliability
- High speed switching
- · Low forward voltage

# **Applications**

- General purpose





•	ode power supply ng diode for motor application	1. Anode 2.Cath	ode 3. Anode
	TACT DECOVEDY DOMESTICS	ch	
Absolute	FAST RECOVERY POWER RECTIFIE  Maximum Ratings (per diode) T <sub>C</sub> =25°C unless otherwi	ise noted	
			Units
Absolute	Maximum Ratings (per diode) T <sub>C</sub> =25°C unless otherwi	ise noted	Units V
Absolute Symbol	Maximum Ratings (per diode) T <sub>C</sub> =25°C unless otherwi	ise noted Value	
Absolute Symbol	Maximum Ratings (per diode) T <sub>C</sub> =25°C unless otherwing Parameter  Peak Repetitive Reverse Voltage	value	V

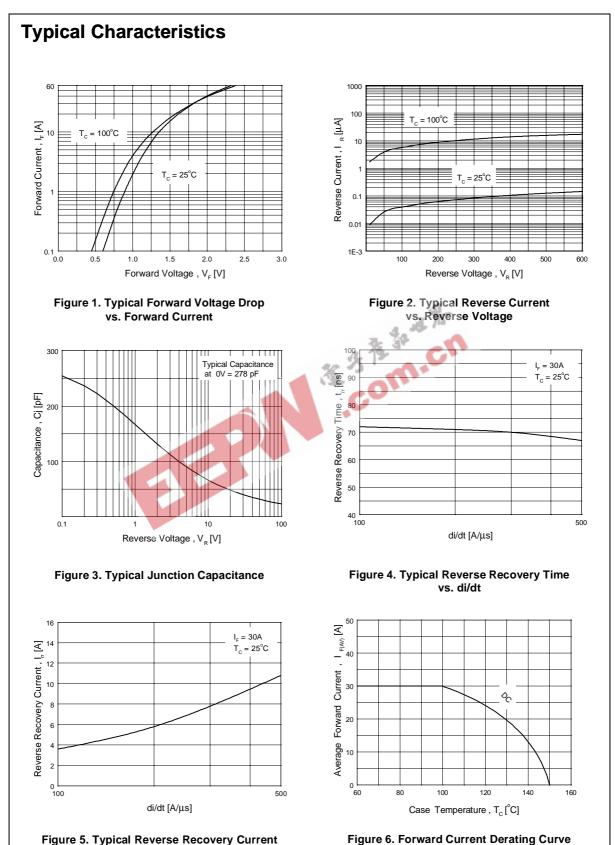
# **Thermal Characteristics**

Symbol	Symbol Parameter		Units	
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case	0.8	°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
					2.3	
	I <sub>F</sub> = 30A	T <sub>C</sub> = 25 °C			2.1	
	I <sub>F</sub> = 30A	$T_C = 25 ^{\circ}C$ $T_C = 100 ^{\circ}C$				
I <sub>RM</sub> *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C			15	
		$T_C = 25$ °C $T_C = 100$ °C			150	
t <sub>rr</sub>	Maximum Reverse Recovery Time				90	ns
Irr	Maximum Reverse Recovery Current				8	Α
Q <sub>rr</sub>	Maximum Reverse Recovery Charge				360	nC
	$(I_F = 30A, di/dt = 200A/\mu s)$					
W <sub>AVL</sub>	Avalanche Energy		1.0			mJ

<sup>\*</sup> Pulse Test: Pulse Width=300µs, Duty Cycle=2%

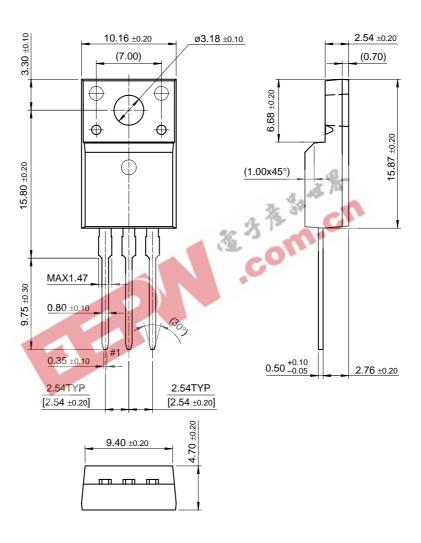


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vs. di/dt

# **Package Dimensions**

# TO-220F



Dimensions in Millimeters

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DOME™	ISOPLANAR™	SuperSOT™-3	
E <sup>2</sup> CMOS™	MICROWIRE™	SuperSOT™-6	
EnSigna™	OPTOLOGIC™	SuperSOT™-8	
FACT™	OPTOPLANAR™	SyncFET™	
FACT Quiet Series™	POP™	TinyLogic™	
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