



FFA40U60DN

 Power switchin 	g circuits	1. Anode 2.Catho	de 3 Anode
	AST RECOVERY POWER RECTIFIE	-cn	ac c. Anouc
	aximum Ratings (per diode) T _C =25°C unless other		
Symbol	Parameter	Value	Units
V _{RRM}	Peak Repetitive Reverse Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current @ T _C = 100°C	40	А
	Non-repetitive Peak Surge Current 60Hz Single Half-Sine Wave	240	A
T _{J,} T _{STG}	Operating Junction and Storage Temperature	- 65 to +150	°C

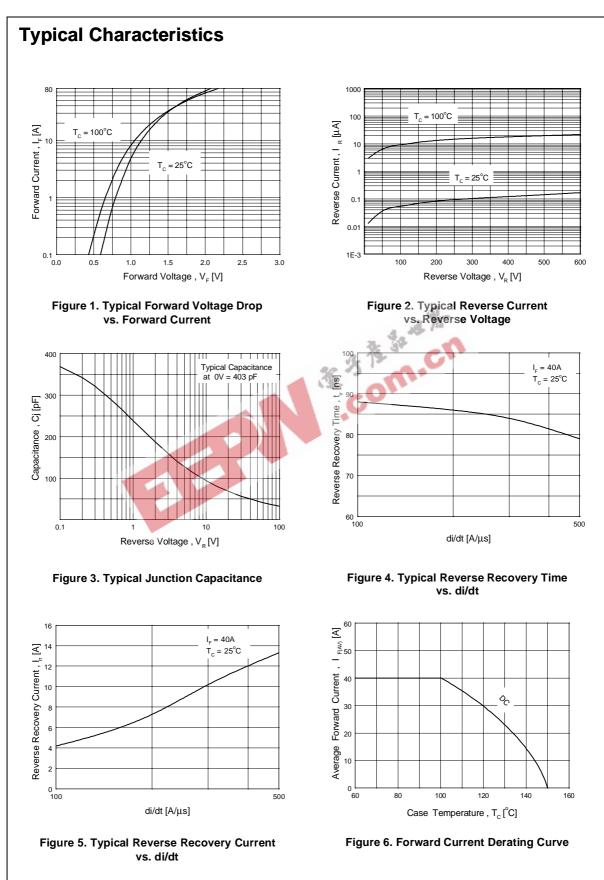
Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case	0.7	°C/W

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

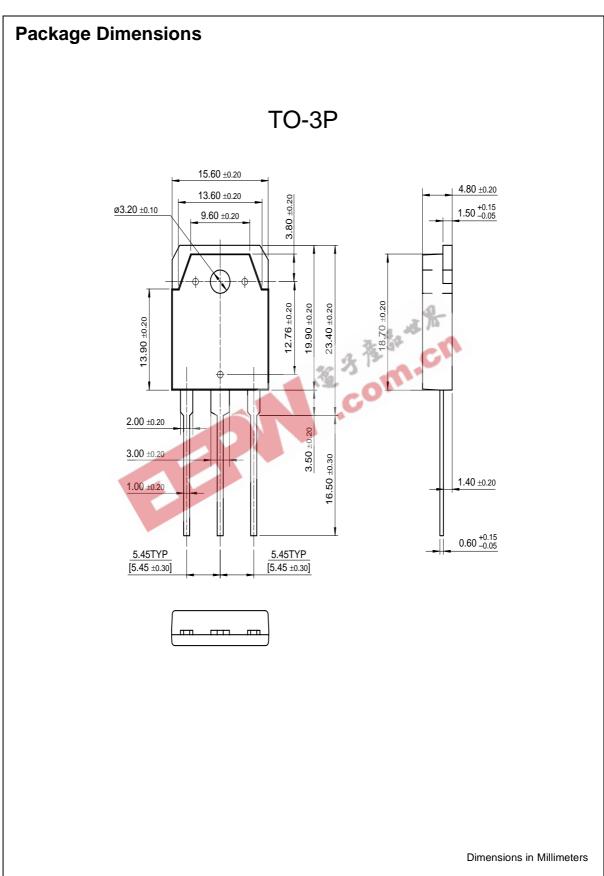
Symbol	Parameter		Min.	Тур.	Max	Units
V _{FM} *	Maximum Instantaneous Forward Voltage					V
	$I_F = 40A$	T _C = 25 °C	-	-	2.1	
	I _F = 40A	T _C = 25 °C T _C = 100 °C	-	-	1.9	
I _{RM} *	Maximum Instantaneous Reverse Current					μΑ
	@ rated V _R	T _C = 25 °C T _C = 100 °C	-	-	20	
		T _C = 100 °C	-	-	200	
t _{rr}	Maximum Reverse Recovery Time		-	-	110	ns
rr	Maximum Reverse Recovery Current		-	-	10	А
Q _{rr}	Maximum Reverse Recovery Charge (I _F =40A, di/dt = 200A/μs)		-	-	550	nC
W _{AVL}	Avalanche Energy		1.0	-	-	mJ

t: Pulse Width=300µs, Duty Cycle=2%



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	•	Rev. F1