

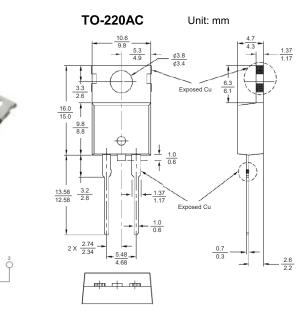
SUPERFAST RECTIFIER DATA SHEET

FEATURES

- Ultrafast Recovery
- 175° C Operaing Juncion Temperature
- High Frequency Operaion
- Low IR Value
- High Surge Capacity
- Epitaxial Chip Construcion

MECHANICAL DATA

- Switched Mode Power Supply
- Freewheeling Diode, Snubber Diode
- UPS



Maximum Ratings and Electrical Charateristics @T_A=25℃ unless otherwise specified

Absolute Maximum Ratings

Parameter	Symbol	Test Conditions	Values	Units
Repetitive peak reverse voltage	Vrrm		1200	V
Continuous forward current	IF(AV)	Ta=110 °C	15	А
Single pulse forward current	IFSM	T₄=25℃	150	Α
Maximum repetitive forward current	IFRM	Square wave, 20kHZ	30	А
Operating junction	٦		175	°C
Storage temperatures	Tstg		-55 to +175	°C

Electrical characteristics (Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Breakdown voltage Blocking voltage	Vr	Ir=100µA	1200			V
Forward voltage	VF	IF=15 A		2.6	3.3	V
		I⊧=15 A, TJ =125 ℃		2.2	3.3	V
Reverse leakage current	Ir	Vr= Vrrm			20	μΑ
		Tj=150℃, Vr=1200V			200	μΑ
Reverse recovery time	Trr	IF=0.5A, IR=1A,IRR=0.25A			55	ns
		IF=1A,VR=30V, di/dt =200A/us		23	35	ns

Thermal characteristics

Parameter	Symbol	Тур	MAX	Units
Junction-to-Case	RthJC	-	3	°C /W



RATINGS AND CHARACTERISTIC CURVES

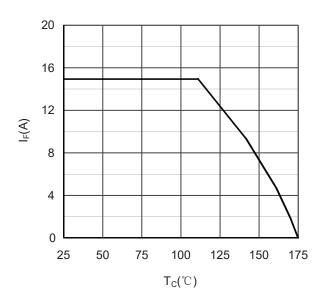


Fig. 1- Forward current derating curve

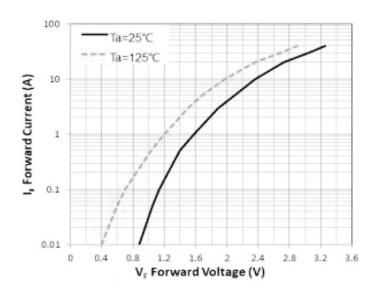


Fig. 2 - Ty pical forward characteristics

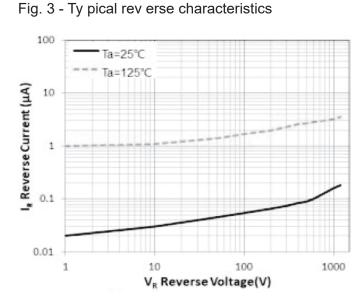
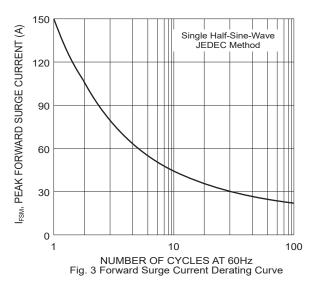


Fig. 4 - Forward surge current derating curve





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