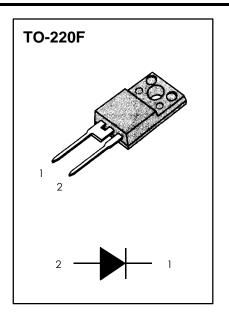
FEATURES

- * Ultrafast with Soft Recovery (Trr < 45ns)
- * Low Forward Voltage ($V_F=1.2V$ at $I_F=4A$)

APPLICATIONS

- * Power Switching Circuits
- * Output rectifiers
- * Freewheeling Diodes
- * Switching Mode Power Supply



MAXIMUM RATINGS

Rating	Symbol Value		Units
Peak Repetitive Reverse Voltage	V_{RRM}	400	٧
Average Rectified Forward Current, T _C =100 °C	I _{F(AV)}	4	Α
Non-repetitive Peak Surge Current	I_{FSM}	40	Α
(Half-wave, Single Phase, 60Hz)			
Operating Junction and Storage Temperature	T_J, T_STG	-65 ~ 150	°C

THERMAL CHARACTERISTICS

Thermal Resistance - Junction to Case	$R_{\theta JC}$	11	°C/W
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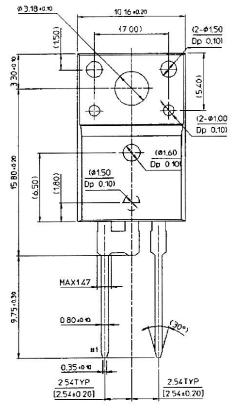


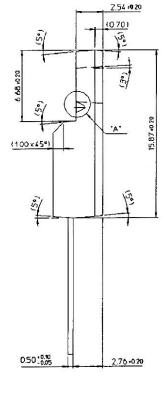
ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Min	Тур	Max	Units
Maximum Instantaneous Forward Voltage (1)	V _F				
(I _F = 4A, T _C = 100 °C)		-	-	1.2	V
$(I_F = 4A, T_C = 25 ^{\circ}C)$		-	1.2	1.4	
Maximum Instantaneous Reverse Current (1)	I _R				
(Rated DC Voltage, T _C = 100 °C)		-	-	40	μΑ
(Rated DC Voltage, T _C = 25 °C)		-	-	4	
Maximum Reverse Recovery Time	trr	-	-	45	ns
$(I_F = 4A, di/dt = -200A/\mu s)$	Irr	-	-	3.0	Α
	Qrr	-	-	68	nQ
Avalanche Energy	W_{AVL}	1.0	-	-	mJ

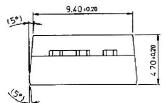
(1) Pulse Test : Pulse Width = $300\mu s$, Duty Cycle $\leq 2.0\%$

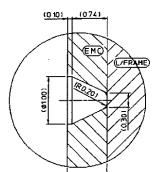
PACKAGE DIMENSION





Unit : mm





(0.84)

"A")

(DETAIL

NOTE

1. THESE DIMENSIONS DO NOT INCLUDE MOLD PROTRUSION

2. () IS REFERENCE

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FACT Quiet Series $^{\text{TM}}$ Quiet Series $^{\text{TM}}$ SuperSOT $^{\text{TM}}$ -3 SuperSOT $^{\text{TM}}$ -6 GTO $^{\text{TM}}$ SuperSOT $^{\text{TM}}$ -8 HiSeC $^{\text{TM}}$ TinyLogic $^{\text{TM}}$

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PRODUCT STATUS DEFINITIONS

Definition of Terms

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