

SF10A400H

Ultra Fast Recovery Diode

Applications

- High speed switching and rectification
- Switching mode power supply

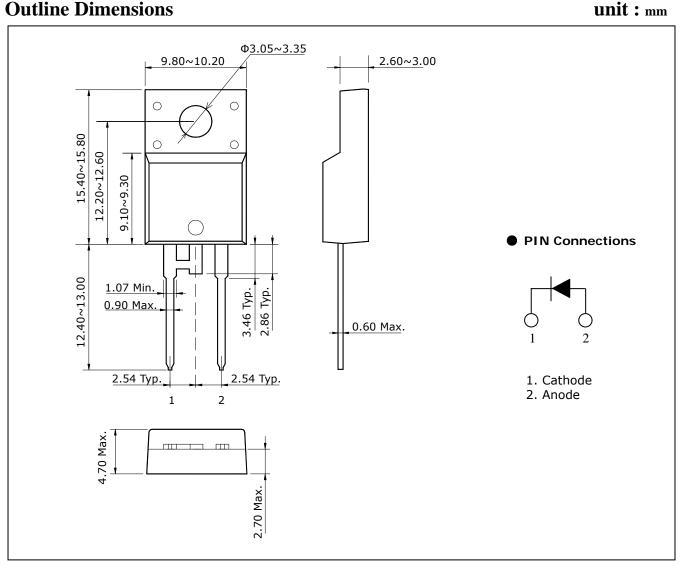
Features

- Ultra-fast reverse recovery time: t_{rr}=50ns Max.
- Low forward voltage & low reverse current
- Low switching loss

Ordering Information

Type No.	Marking	Package Code	
SF10A400H	SF10A400H	TO-220F-2L	

Outline Dimensions



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Absolute Maximum Ratings

[Ta=25°C]

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	400	V
Average rectified output current	I _O	10	А
Peak forward surge current (Non-repetitive 60Hz sine wave)	I_{FSM}	120	А
Junction temperature	Tı	150	°C
Storage temperature range	T_{stg}	-45 ~ 150	°C

Electrical Characteristics

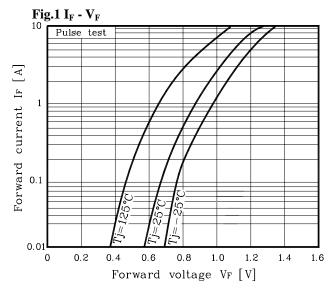
[Ta=25°C]

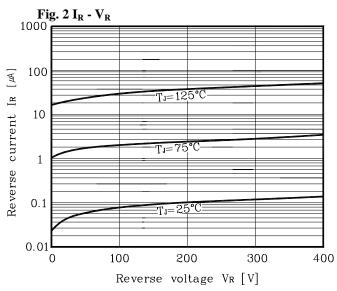
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Peak forward voltage	$V_{FM}^{1)}$	I _F =10A	-	-	1.4	V
Repetitive peak reverse current	I_{RRM}	V _R =400V	-	-	20	μA
Reverse recovery time	t _{rr}	I _F =1A, di/dt=100A/ <i>µ</i> s	-	1	50	ns
Total capacitance	C _T	VR=10V, f=1MHz	-	65	-	pF
Thermal resistance	R _{th}	Junction to ambient	-	1	62.5	· °C/W
		Junction to case	-	-	3.5	

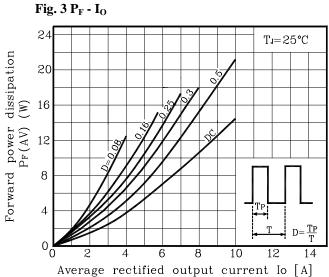
¹⁾ Pulse test : $t_P \le 380 \,\mu\text{s}$, Duty cycle $\le 2\%$

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Electrical Characteristic Curves







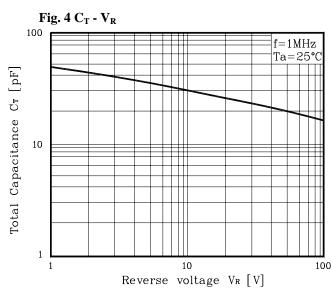


Fig. 5 I_{FSM} – Number of cycle

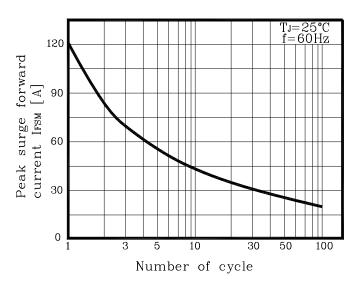
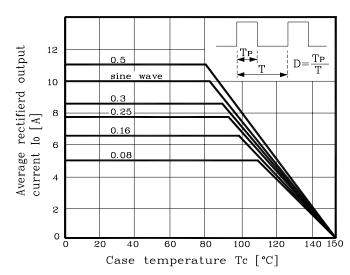


Fig. 6 I_O derating - T_C



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