

SF10A600H

Ultra Fast Recovery Diode

unit: mm

Applications

- High speed switching and rectification
- Switching mode power supply
- Free wheeling diode and snubber circuit

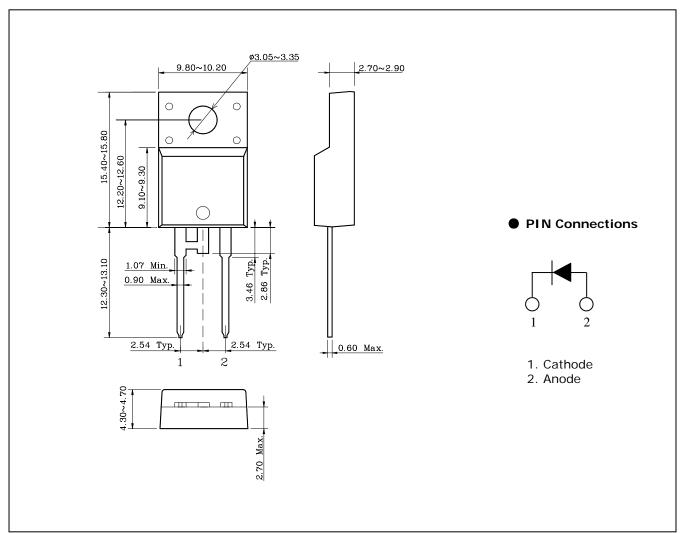
Features

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

Ordering Information

Type No.	Marking	Package Code		
SF10A600H	SF10A600H	TO-220F-2L		

Outline Dimensions



SF10A600H

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Absolute Maximum Ratings

[Ta=25°C]

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	600	V
Average rectified output current	ectified output current I ₀		А
Peak forward surge current (Non-repetitive 60Hz sine wave)	I _{FSM}	120	А
Junction temperature	TJ	150	°C
Storage temperature range	T_{stg}	-45 ~ 150	°C

Electrical Characteristics

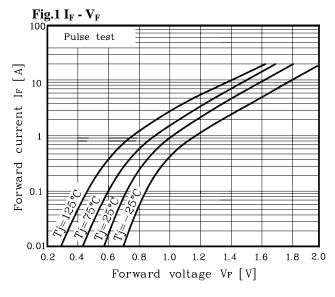
[Ta=25°C]

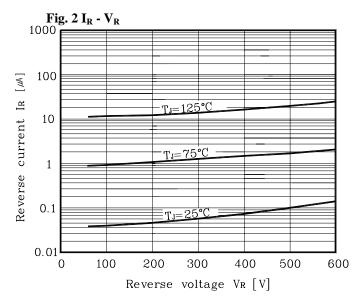
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Peak forward voltage	V _{FM} ¹⁾	I _F =10A	-	1	1.9	V
Repetitive peak reverse current	I _{RRM}	V _R =600V	-	ı	20	μΑ
Reverse recovery time	t _{rr}	I _F =1A, di/dt=-100A/ <i>μ</i> s	-	1	50	ns
Total capacitance	C_{T}	V _R =10V, f=1MHz	-	30	ı	pF
Thermal resistance	R_th	Junction to ambient	-	-	62.5	°C/W
		Junction to case	_	-	3.5	

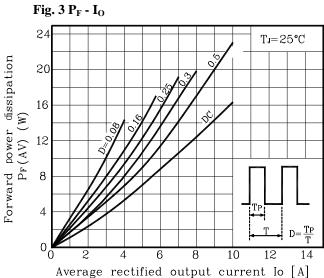
¹⁾ Pulse test : $t_P \le 380 \,\mu\text{s}$, Duty cycle $\le 2\%$

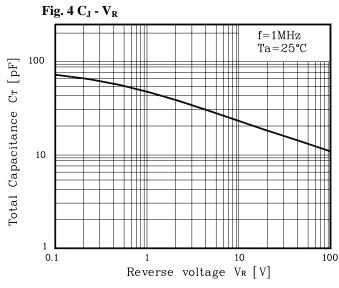
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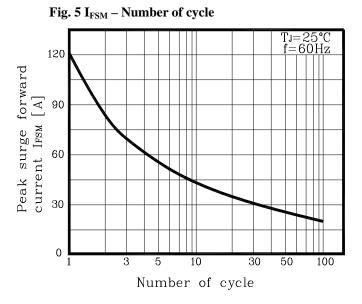
Electrical Characteristic Curves

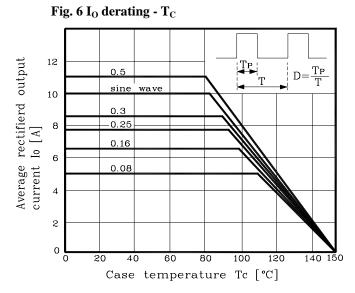












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