

SF1A600H

Ultra Fast Recovery Diode

Applications

- High speed switching and rectification
- Switching mode power supply

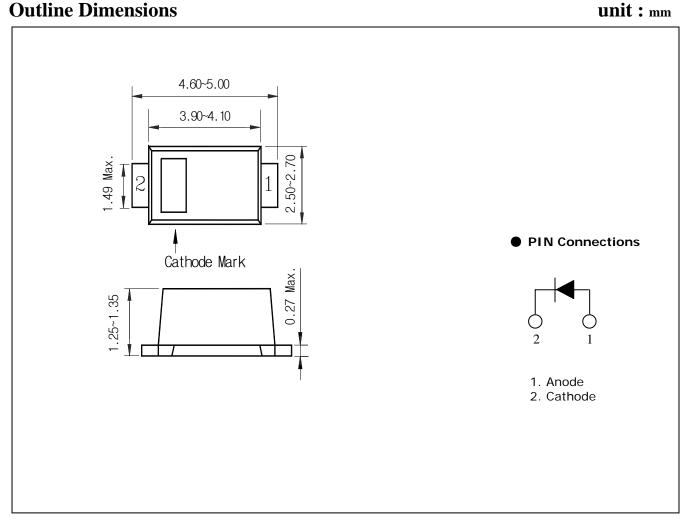
Features

- Ultra-fast reverse recovery time: trr=35ns Max.
- Small & compact type SMD package
- Low reverse current & low switching loss

Ordering Information

Type No.	Marking	Package Code	
SF1A600H	1A6H	SOD-106	

Outline Dimensions



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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	Io	1.0	А
Peak forward surge current (Non-repetitive 60Hz sine wave)	I _{FSM}	20	А
Junction temperature	TJ	150	°C
Storage temperature range	T_{stg}	-45 ~ 150	°C

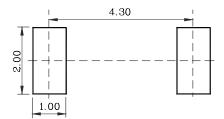
Electrical Characteristics

[Ta=25°C]

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Peak forward voltage	V _{FM} ¹⁾	I _F =1A	-	1.45	1.7	V
Repetitive peak reverse current	I _{RRM}	V _R =600V	-	-	10	μA
Reverse recovery time	t _{rr}	I _F =0.5A, di/dt=-100A/μs	-	23	35	ns
Thermal resistance	R_{th}	Junction to ambient 2)	-	-	76	°C/W

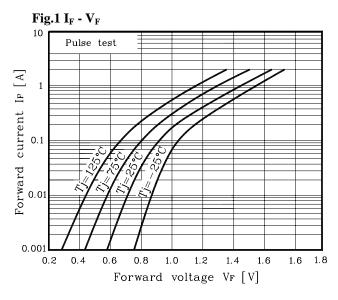
¹⁾ Pulse test : $t_P \le 380 \,\mu\text{s}$, Duty cycle $\le 2\%$

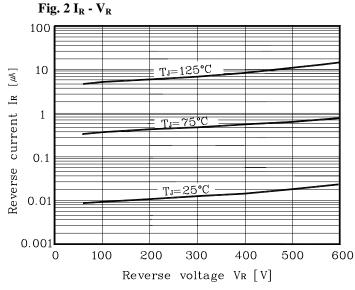
* Recommend PCB solder land [Unit : mm]

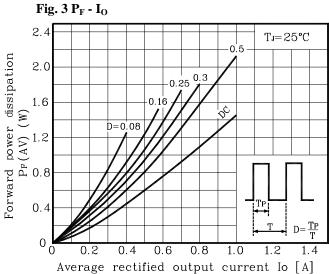


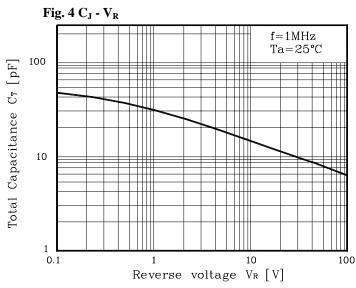
²⁾ Device mounted on glass epoxy PCB (recommanderable minimum solder land)

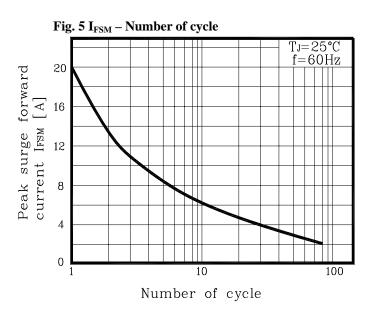
Electrical Characteristic Curves

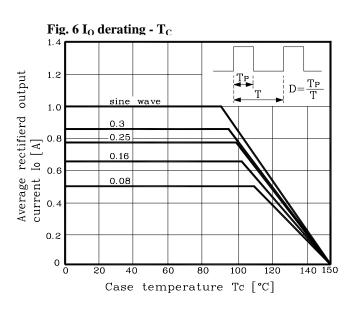












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