

SF1A200H

**Ultra Fast Recovery Diode** 

unit : mm

#### Applications

- High speed switching and rectification
- Switching mode power supply

#### Features

- Ultra-fast reverse recovery time: trr=30ns Max.
- Small & compact type SMD package
- Low forward voltage & low reverse current
- Low switching loss

#### **Ordering Information**

Type No.	Marking	Package Code	
SF1A200H	1A2H	SOD-106	

#### **Outline Dimensions**

# **SF1A200H**

#### Absolute Maximum Ratings

Absolute Maximum Ratings			[Ta=25°C]		
Characteristic	Symbol	Rating	Unit		
Repetitive peak reverse voltage	V <sub>RRM</sub>	200	V		
Average rectified output current	Ι <sub>ο</sub>	1.0	А		
Peak forward surge current (Non-repetitive 60Hz sine wave)	I <sub>FSM</sub>	20	A		
Junction temperature	ΤJ	150	°C		
Storage temperature range	T <sub>stg</sub>	-45 ~ 150	°C		

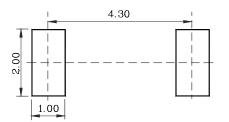
#### **Electrical Characteristics**

Electrical Characteristics					[Ta=25°C]	
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Peak forward voltage	V <sub>FM</sub> <sup>1)</sup>	I <sub>F</sub> =1A	-	-	0.98	V
Repetitive peak reverse current	I <sub>RRM</sub>	V <sub>R</sub> =200V	-	-	10	μA
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> =0.5A, di/dt=-100A/#s	-	-	30	ns
Thermal resistance	R <sub>th</sub>	Junction to ambient <sup>2)</sup>	-	-	76	°C/W

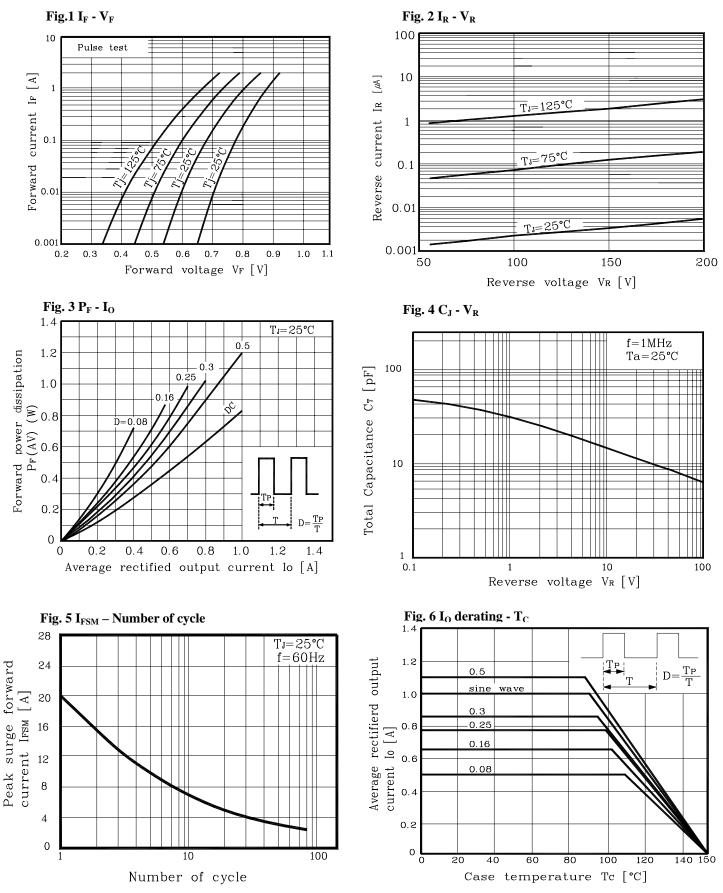
1) Pulse test :  $t_P \le 380 \ \mu$ s, Duty cycle  $\le 2\%$ 

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

#### \* Recommend PCB solder land [Unit : mm]



### **Electrical Characteristic Curves**



### **SF1A200H**

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