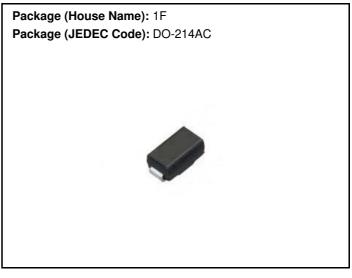
# ST02-82F1

2.0A, 200W

## Feature

- Peak pulse power:200W
- Small SMD
- · Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

#### OUTLINE



# **Equivalent circuit**

# Absolute Maximum Ratings (unless otherwise specified : TI=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-55 to 175	°C
Operating junction temperature	Tj		-55 to 150	°C
Maximum surge reverse current	I <sub>RSM</sub>	10/1000µs, Non-repetitive, Exponential wave *	2	А
Maximum surge reverse power	P <sub>RSM</sub>	10/1000µs, Non-repetitive ※	200	W
Continuous (direct) reverse voltage	V <sub>R(DC)</sub>		67	V

\* : See the original Specifications

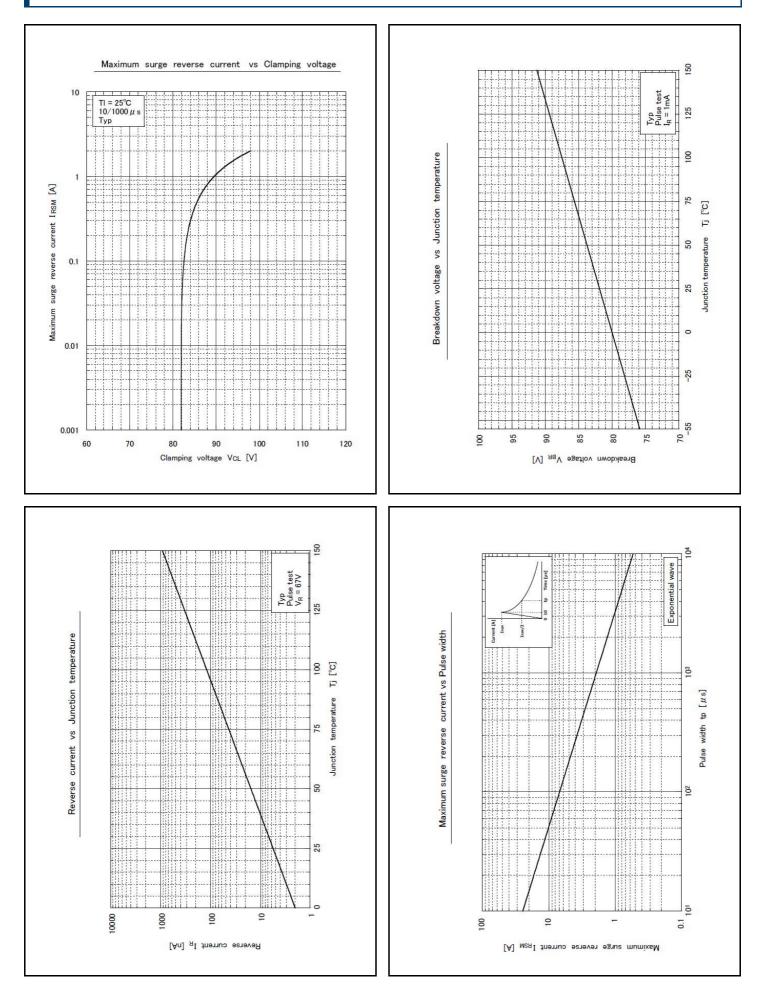
<b>Electrical Characteristics</b> (unless otherwise specified : TI=25°C)	
--	--

Item	Symbol	Conditions	Ratings			Unit
i cin		Conditions		ТҮР	MAX	Onit
Breakdown voltage	V <sub>BR</sub>	IR=1mA, Pulse measurement			90	V
Reverse current	I <sub>R</sub>	VR=67V, Pulse measurement			5	μΑ
Electrostatic discharge capability	V <sub>ESD</sub>	C=330pF, R=330 $\Omega$ , Polarity±, Aerial discharge *		30		kV
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			23	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			157	°C/W

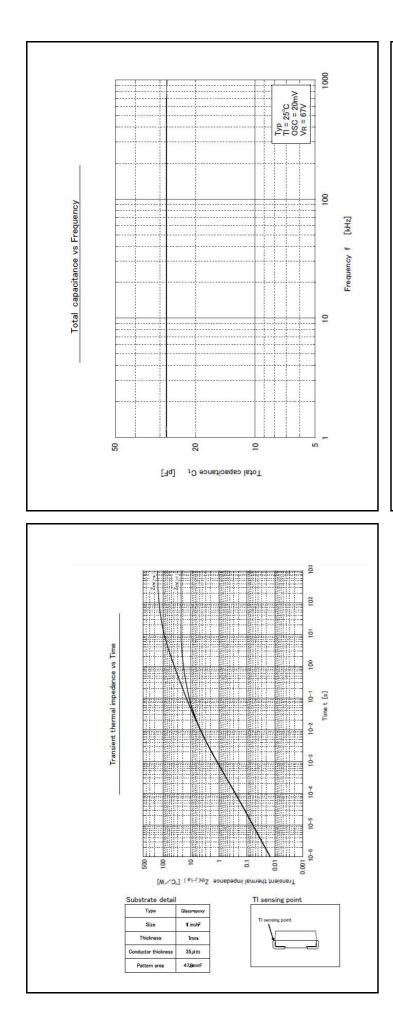
\* : See the original Specifications

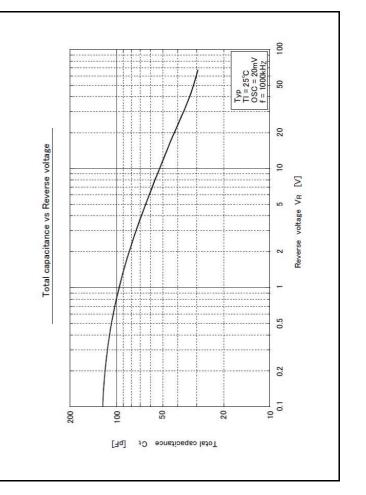
Shindengen Electric Manufacturing Co., Ltd. 1/5

# **CHARACTERISTIC DIAGRAMS**



2/5

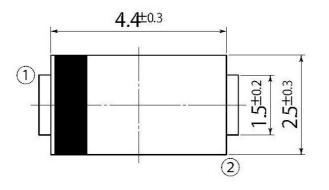


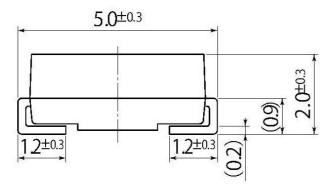


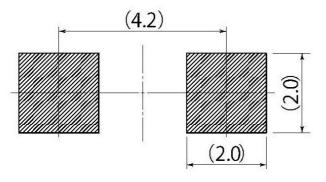
## unit:mm

scale: 10/1

B3	JEDEC Code	DO-214AC		
	JEITA Code	-		
	House Name	1F		

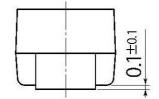






# Referential Soldering Pad

Optimize soldering pad to the board design and soldering condition.



#### Notes

- 1. If you wish to use any such product, please be sure to refer to the specifications issued by Shindengen.
- 2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

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#### [Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

#### [Specific applications]

Nuclear reactor control systems, aircraft, aerospace equipment, submarine repeaters, life support equipment and systems, etc.

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