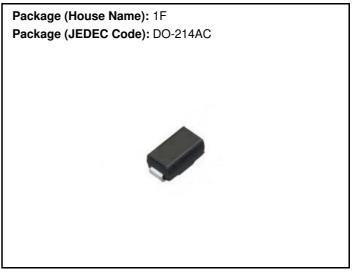
ST03-58F1 TVS

4.0A, 300W

Feature

- Peak pulse power:300W
- 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 _{RSM}	10/1000µs, Non-repetitive, Exponential wave *	4	А
Maximum surge reverse power	P _{RSM}	10/1000µs, Non-repetitive ※	300	W
Continuous (direct) reverse voltage	V _{R(DC)}		45	V

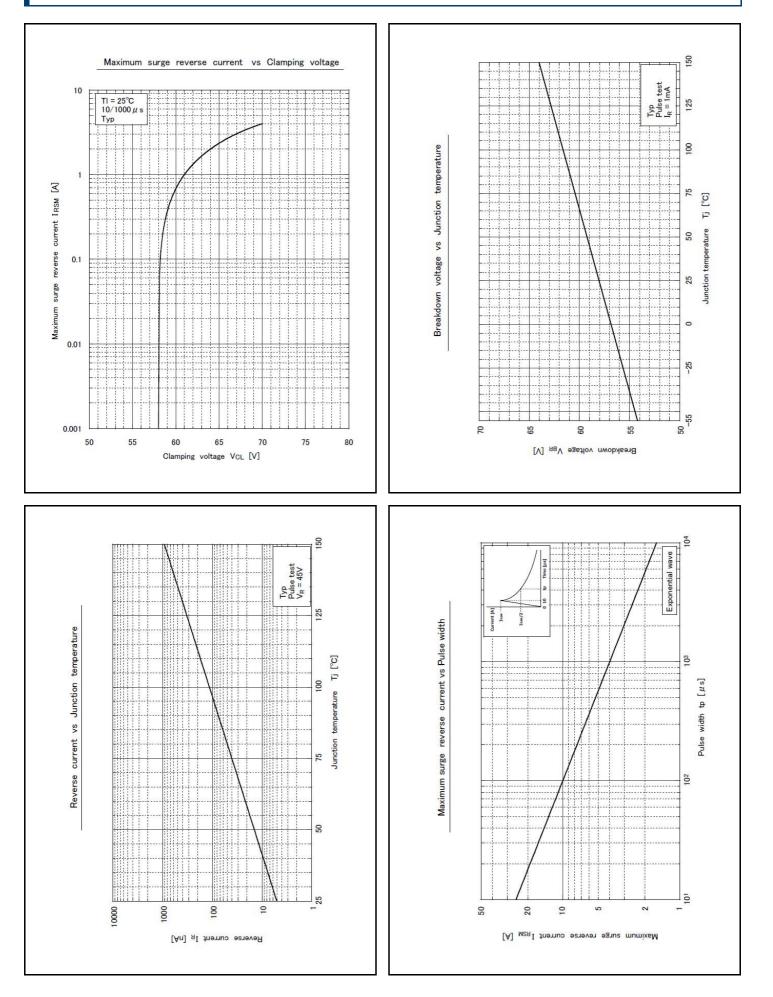
* : See the original Specifications

Item	Symbol	Conditions	Ratings			Unit
item				ТҮР	MAX	onit
Breakdown voltage	V_{BR}	IR=1mA, Pulse measurement			64	V
Reverse current	I _R	VR=45V, Pulse measurement			5	μA
Electrostatic discharge capability	V _{ESD}	C=330pF, R=330Ω, 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

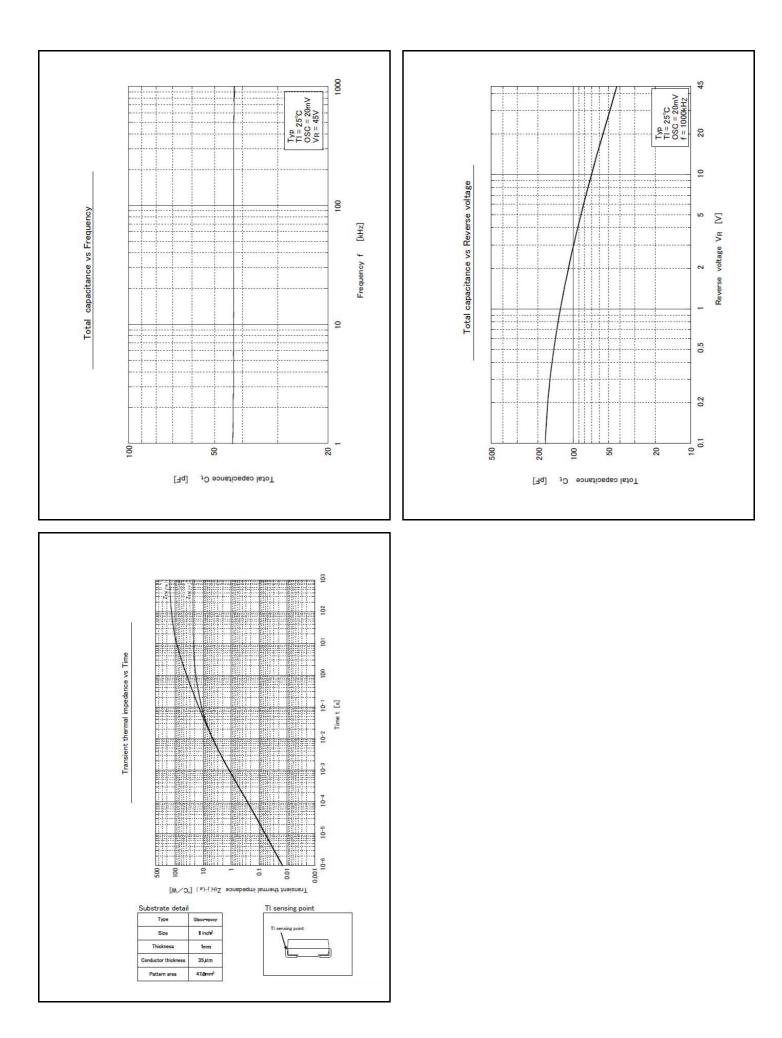
Shindengen Electric Manufacturing Co., Ltd. 1/

CHARACTERISTIC DIAGRAMS



2/5

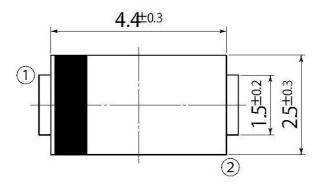
ST03-58F1_Rev.01(2020.01)

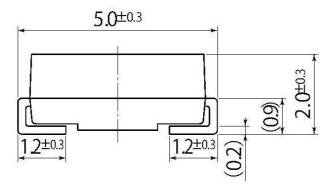


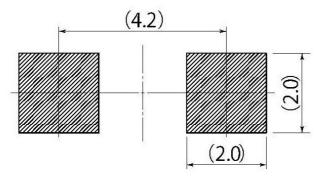
unit:mm

scale: 10/1

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

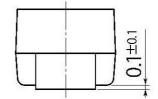






Referential Soldering Pad

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.

[Standard applications]

Computers, office automation and other office equipment, communication terminals, test and measurement equipment, audio/visual equipment, amusement equipment, consumer electronics, machine tools, personal electronic equipment, industrial equipment, etc.

[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.

- 3. Although Shindengen continuously endeavors to enhance the quality and reliability of its products, customers are advised to consider and take safety measures in their design, such as redundancy, fire containment and anti-failure, so that personal injury, fires, or societal damages can be prevented.
- 4. Please note that all information described or contained herein is subject to change without notice due to product upgrades and other reasons. When buying Shindengen products, please contact the Company's offices or distributors to obtain the latest information.
- 5. Shindengen shall not bear any responsibility with regards to damages or infringement of any third-party patent rights and other intellectual property rights incurred due to the use of information on this website.
- 6. The information and materials on this website neither warrant the use of Shindengen's or any third party's patent rights and other intellectual property rights, nor grant license to such rights.
- 7. In the event that any product described or contained herein falls under the category of strategic products controlled under the Foreign Exchange and Foreign Trade Control Law of Japan, exporting of such products shall require an export license from the Japanese government in accordance with the above law.
- 8. No reprinting or reproduction of the materials on this website, either in whole or in part, is permitted without proper authorization from Shindengen.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Zener Diodes category:

Click to view products by Shindengen manufacturer:

Other Similar products are found below :

 RKZ13B2KG#P1
 DL5234B
 IN4682
 IN4693
 IN4732A
 IN4736A
 IN4750A
 IN4759ARL
 IN5241B
 IN5365B
 IN5369B
 IN747A

 1N964B
 1N966B
 1N968B
 1N972B
 JANS1N4974US
 1N4692
 1N4702
 1N4704
 1N4711
 1N4745ARL
 1N4752ARL
 1N4760ARL

 1N5221B
 1N5242BTR
 1N5350B
 1N5352B
 1N961BRR1
 1N964BRL
 RKZ5.1BKU#P6
 3SMAJ5946B-TP
 3SMAJ5950B-TP

 MMSZ5230BQ-13-F
 MMSZ5232BQ-13-F
 BZX84C7V5
 3SMAJ5945B-TP
 3SMAJ5947B-TP
 3SMBJ5941B-TP
 DZ2S240M0L
 SMAZ27

 TP
 ZMM5224B-7
 RD16UM-T1-A
 RD10S-T1-A
 CDZT2R5.6B
 1N4762A
 G
 Z1SMA18
 JANTX1N4553B
 SMB01-20