ShinDengen

DF10NC15

Schottky Barrier Diodes
150V, 10A

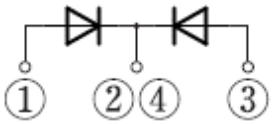
Feature

- SMD
- High Voltage
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): STO-220
Package (JEITA Code): SC-83 similar

Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V_{RRM}		150	V
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=123°C	10	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	100	A

※ ：See the original Specifications

Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=5A, Pulse measurement, per diode			0.88	V
Reverse current	I_R	VR=150V, Pulse measurement, per diode			0.2	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		110		pF
Thermal resistance	Rth(j-c)	Junction to case			3	°C/W

※ ：See the original Specifications

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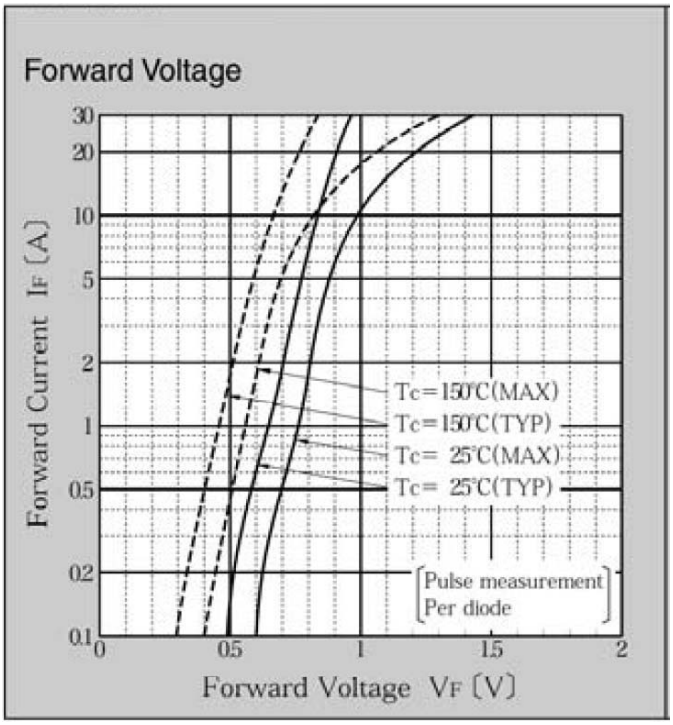
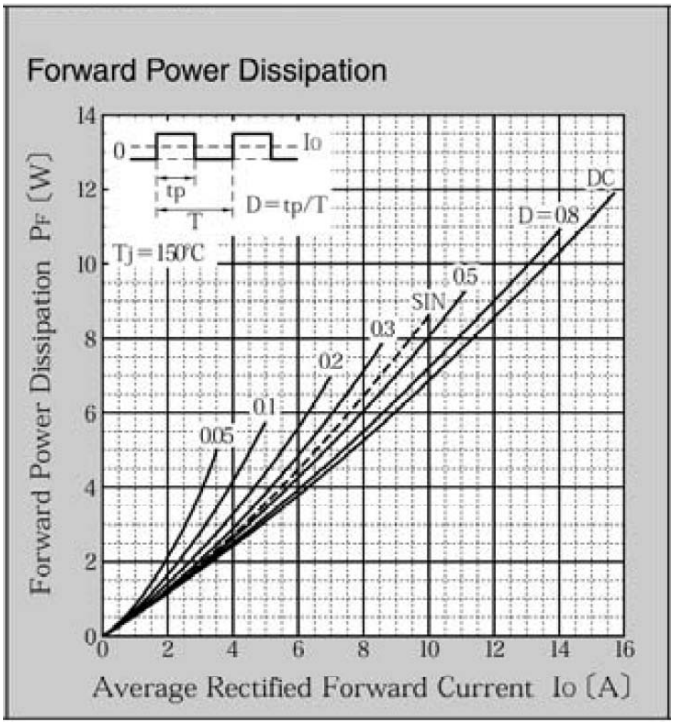
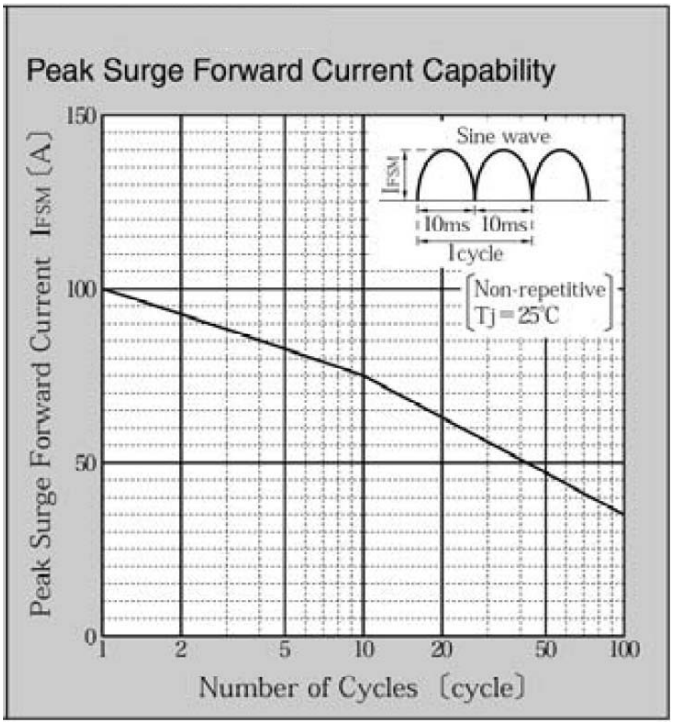
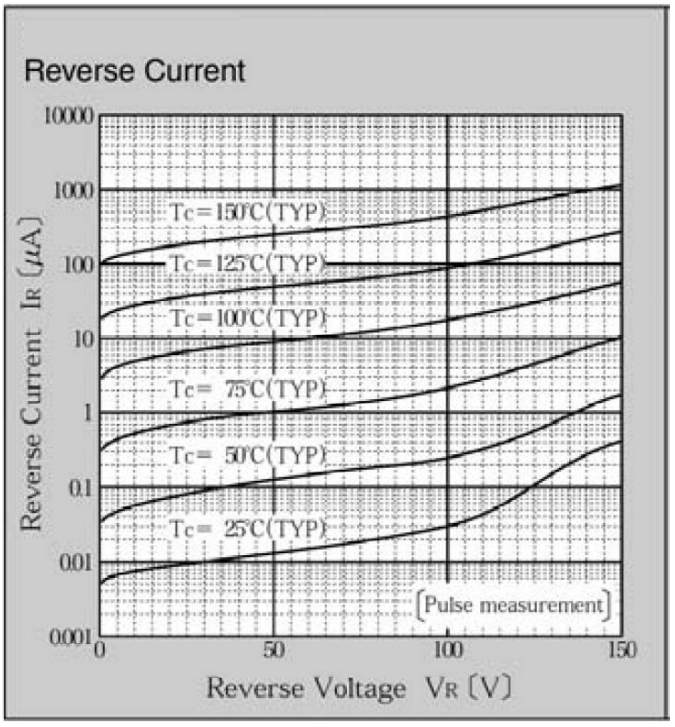
CHARACTERISTIC DIAGRAMS









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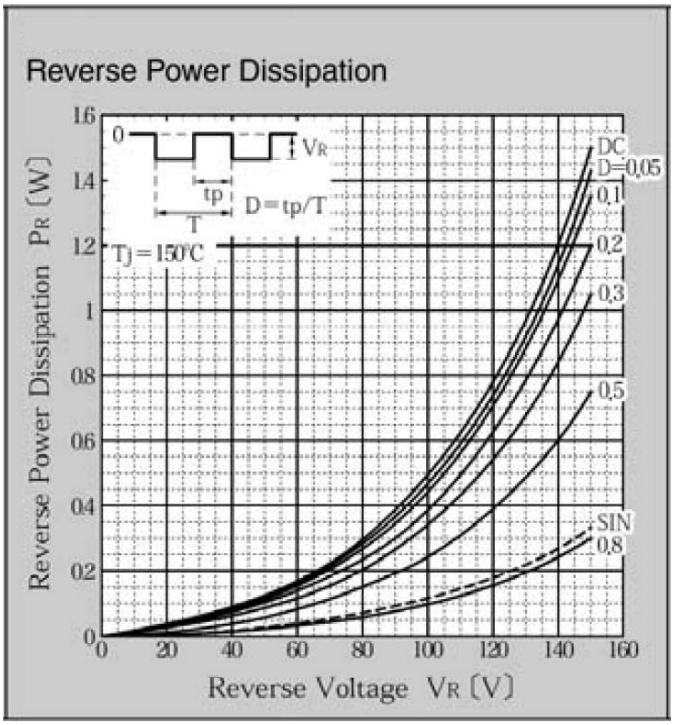

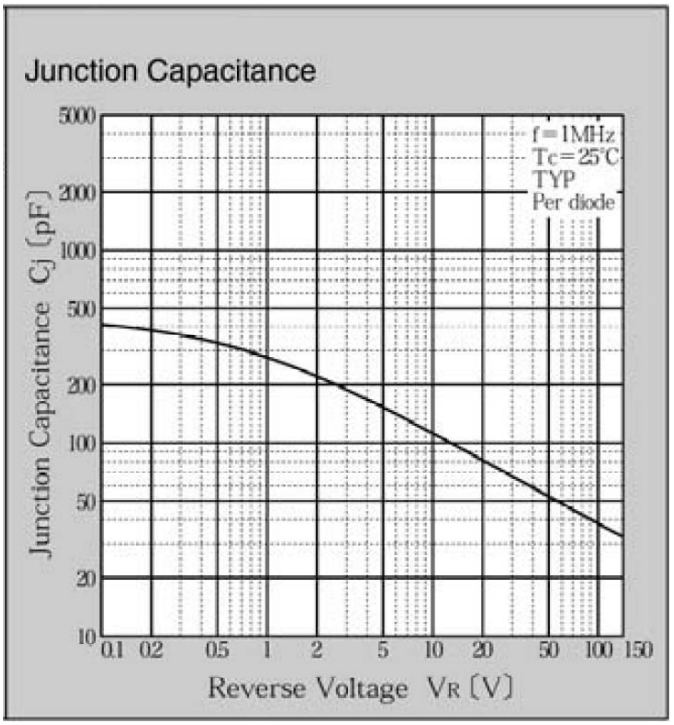

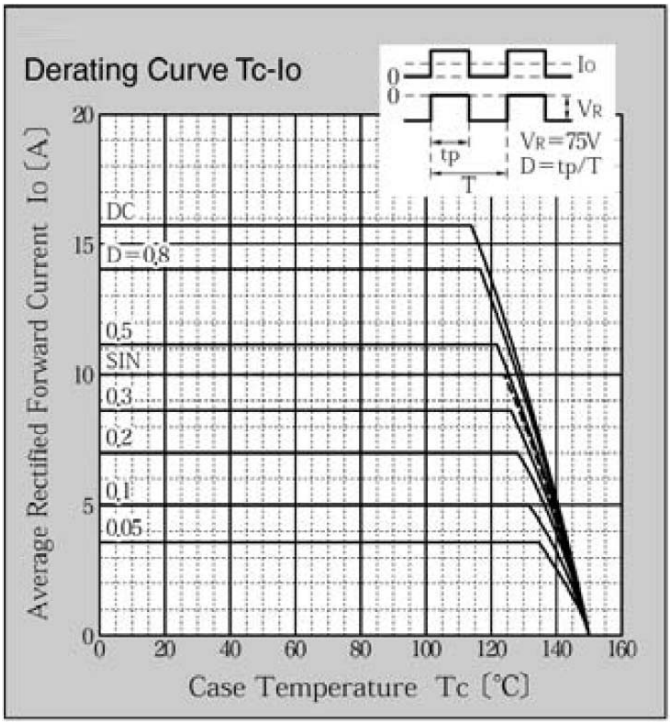

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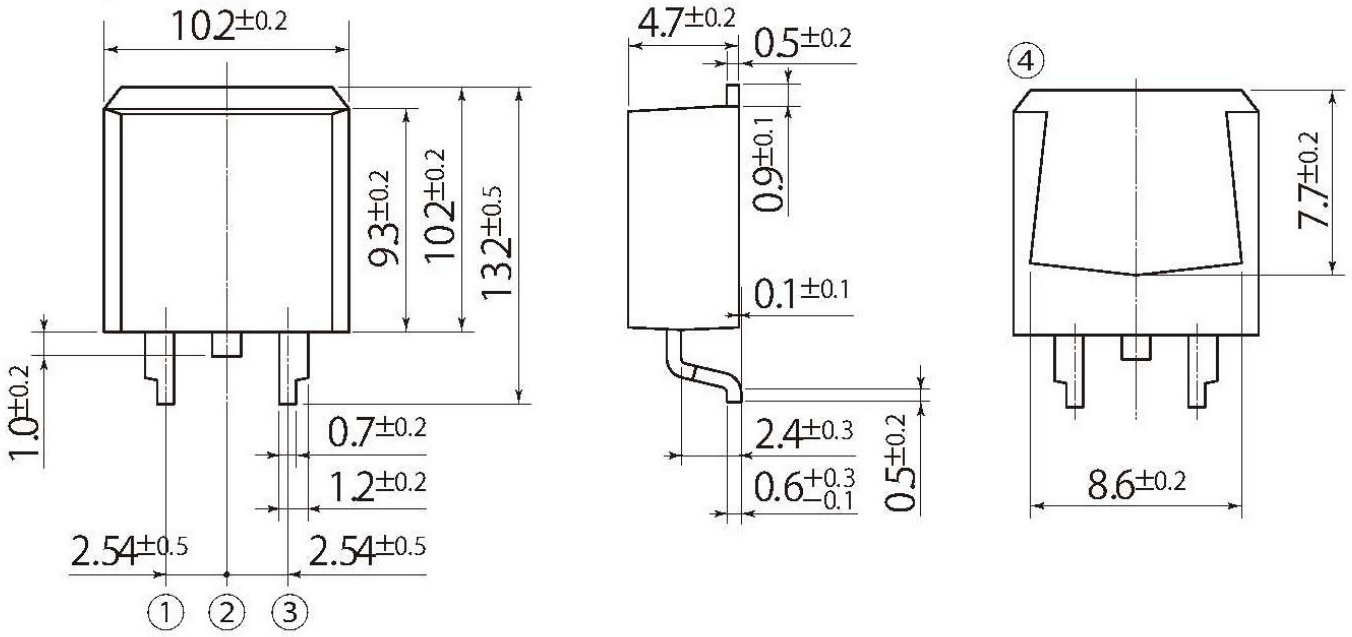
Outline Dimensions

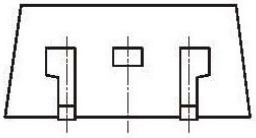
unit:mm

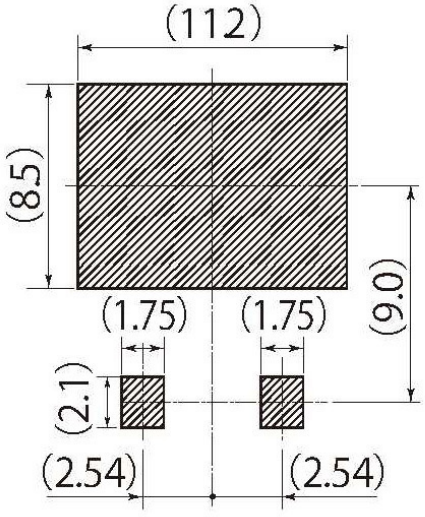
scale: 3/1

H1

JEDEC Code	–
JEITA Code	SC-83 similar
House Name	STO-220







Referential Soldering Pad

・Optimize soldering pad to the board design and soldering condition.

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Notes

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