

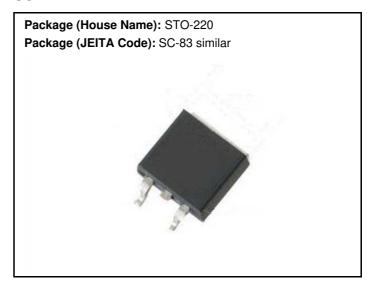
DF10SC9

Schottky Barrier Diodes 90V, 10A

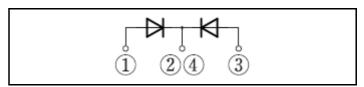
Feature

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

OUTLINE



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		-55 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		90	٧
Repetitive peak surge reverse voltage	V _{RRSM}	Pulse width 0.5ms, duty=1/40	100	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=134°C	10	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	150	Α
Repetitive peak surge reverse power	P _{RRSM}	Pulse width 10μs, Tj=25°C, per diode	330	W

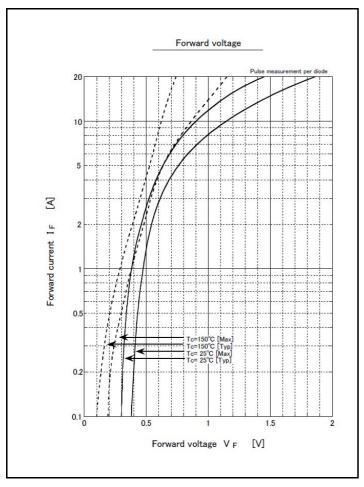
^{* :}See the original Specifications

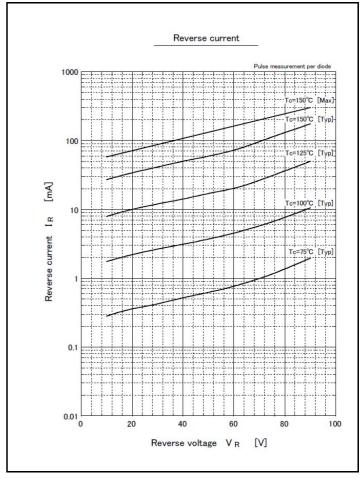
Electrical Characteristics (unless otherwise specified : Tc=25°C)

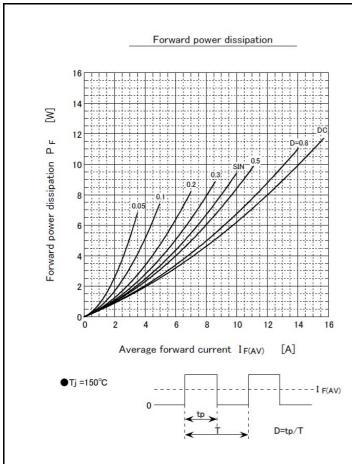
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	01111
Forward voltage	V _F	IF=5A, Pulse measurement, per diode			0.75	V
Reverse current	I _R	VR=90V, Pulse measurement, per diode			3	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		185		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.2	°C/W

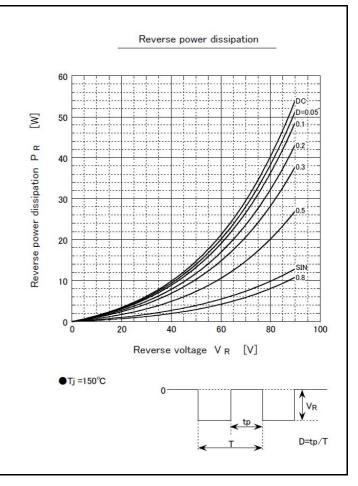
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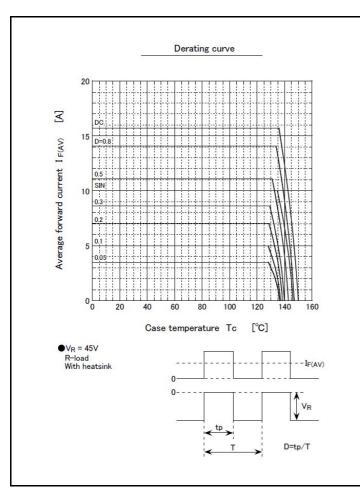
CHARACTERISTIC DIAGRAMS

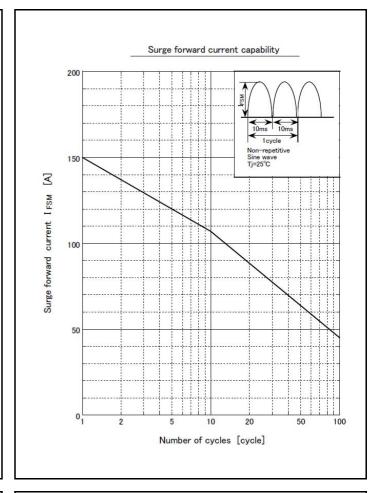


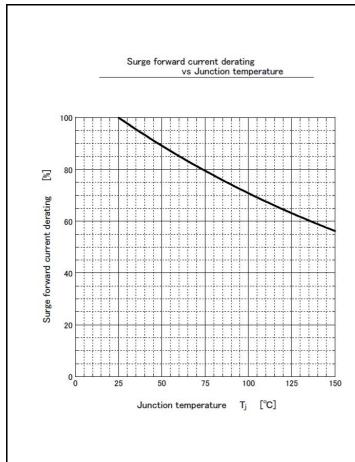


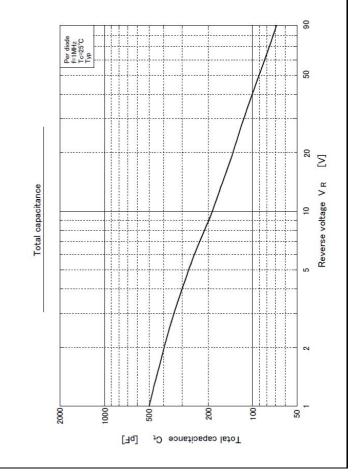


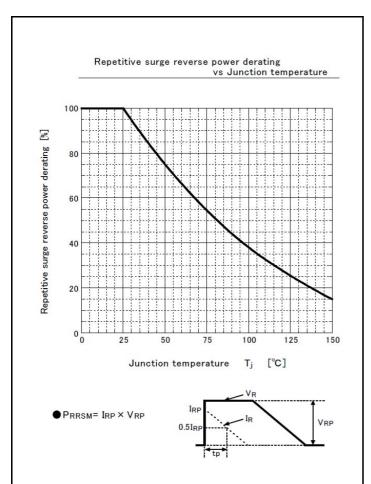


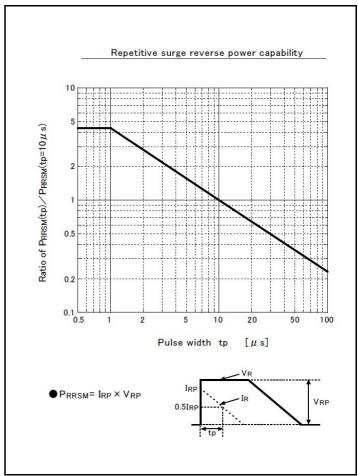






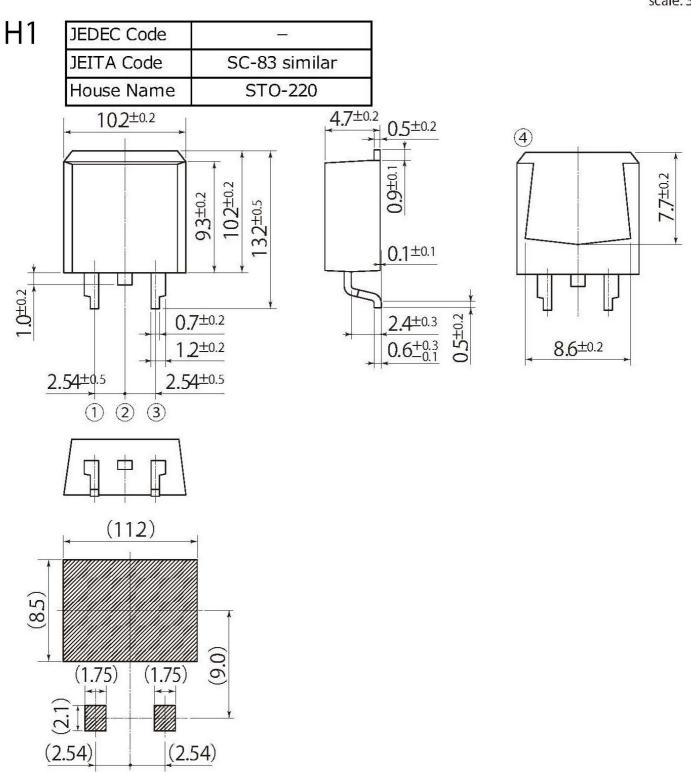






unit:mm

scale: 3/1



[•] Optimize soldering pad to the board design and soldering condition.

Referential Soldering Pad

Notes

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