# DF30SC3ML

Schottky Barrier Diodes 30V, 30A

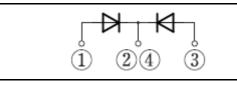
# Feature

- SMD
- High Recovery Speed
- $\bullet \ Low \ V_F$
- Pb free terminal
- RoHS:Yes

#### OUTLINE



# **Equivalent circuit**



# Absolute Maximum Ratings (unless otherwise specified : Tc=25°C) Item Symbol Conditions Ratings Storage temperature Tstg -55 to 150

Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		30	V
Repetitive peak surge reverse voltage	V <sub>RRSM</sub>	Pulse width 0.5ms, duty=1/40	35	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=119°C	30	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	350	А
Repetitive peak surge reverse power	P <sub>RRSM</sub>	Pulse width 10µs, Tj=25°C, per diode	1000	W

\* : See the original Specifications

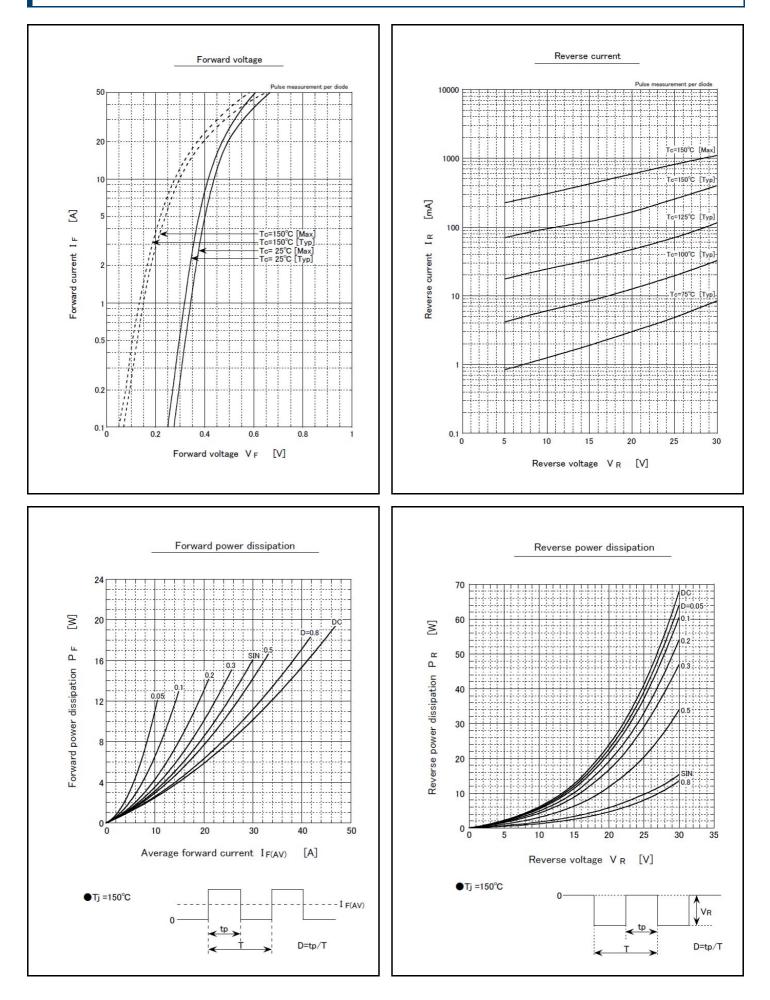
Unit

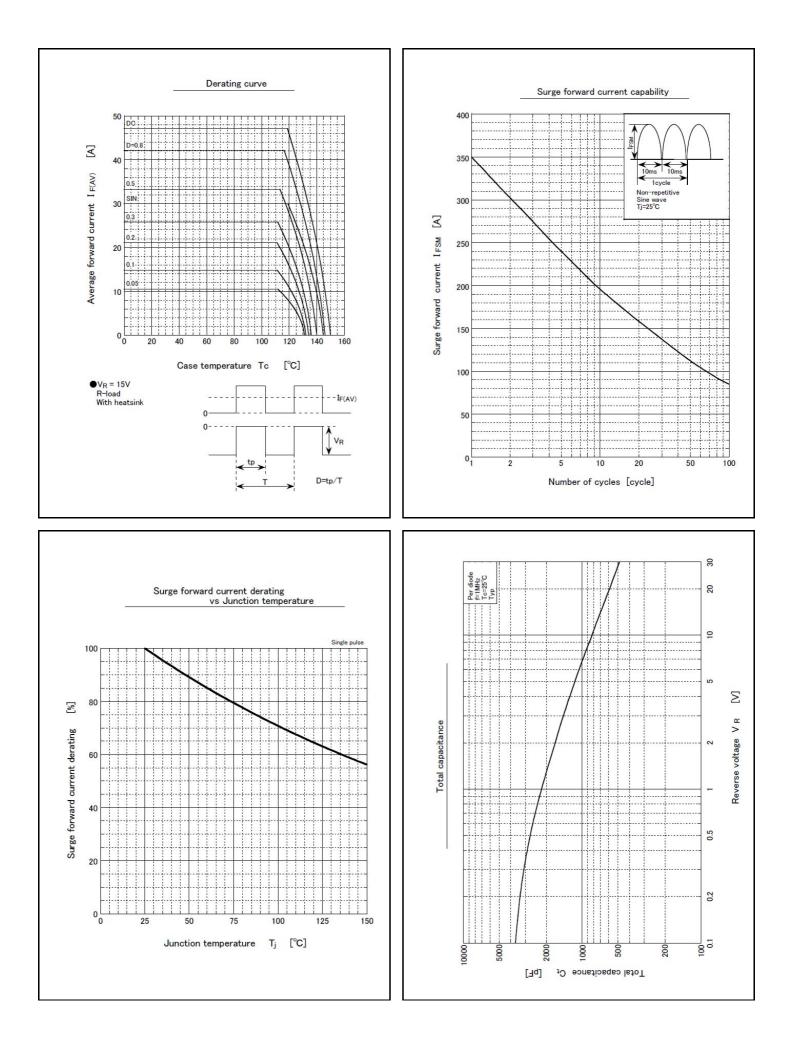
<b>Electrical Characteristics</b>	(unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Forward voltage	V <sub>F</sub>	IF=15A, Pulse measurement, per diode			0.48	V
Forward voltage	V <sub>F</sub>	IF=12.5A, Pulse measurement, per diode			0.45	V
Reverse current	I <sub>R</sub>	VR=30V, Pulse measurement, per diode			10	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		820		pF
Thermal resistance	Rth(j-c)	Junction to case			1.6	°C/W

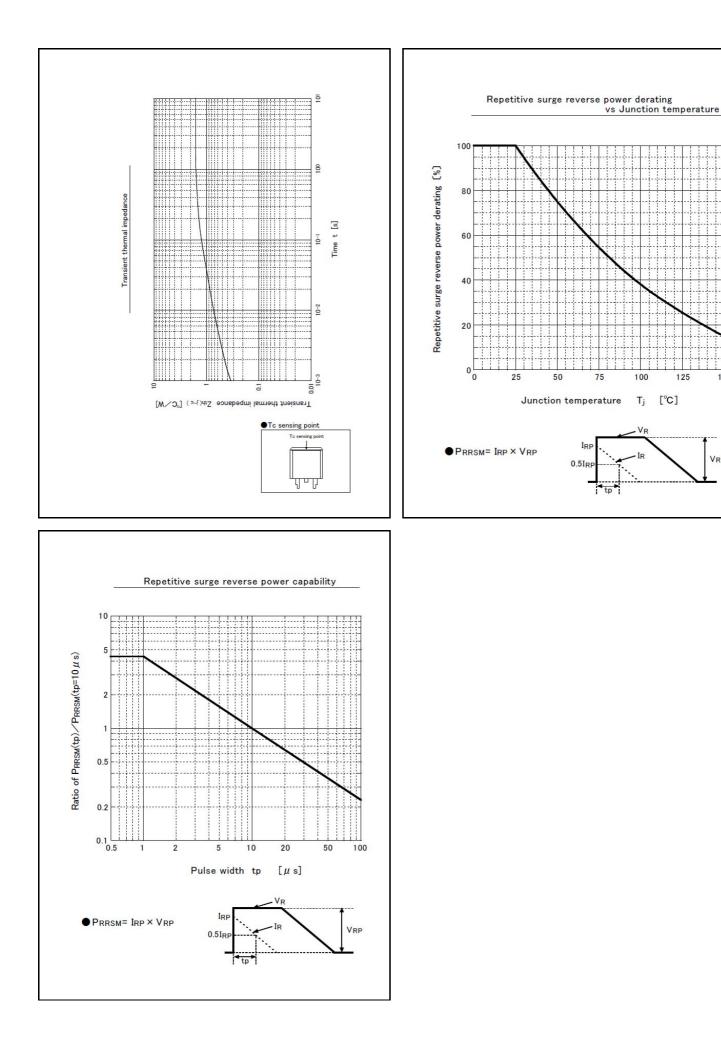
\*:See the original Specifications

# **CHARACTERISTIC DIAGRAMS**





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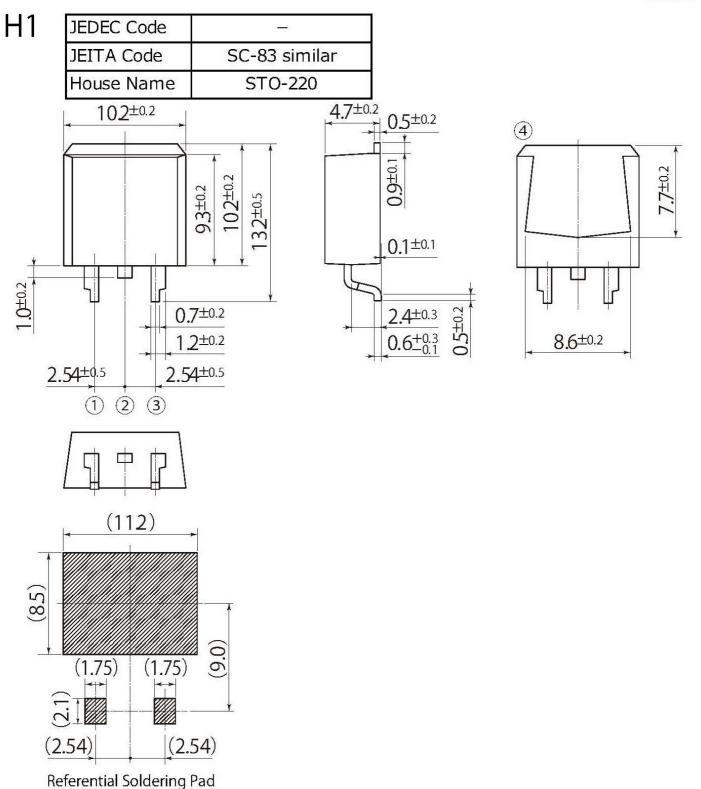


150

VRP

unit:mm

scale: 3/1



Optimize soldering pad to the board design and soldering condition.

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