

DF40SC3L

Schottky Barrier Diodes 30V, 40A

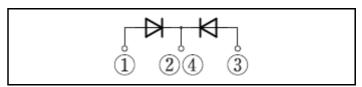
Feature

- SMD
- · High Recovery Speed
- Low V_F
- 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		150	°C	
Repetitive peak reverse voltage	V_{RRM}		30	V	
Repetitive peak surge reverse voltage	V _{RRSM}	Pulse width 0.5ms, duty=1/40	35	V	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=112°C	40	А	
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	400	Α	
Repetitive peak surge reverse power	P _{RRSM}	Pulse width 10μs, Tj=25°C, per diode	1000	W	

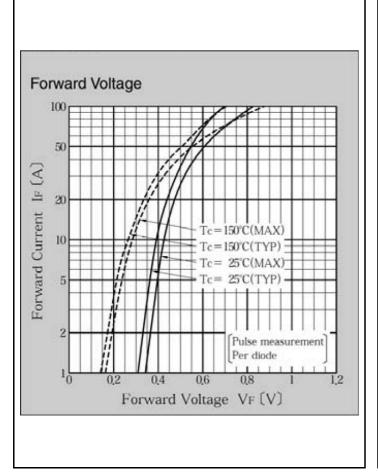
^{* :}See the original Specifications

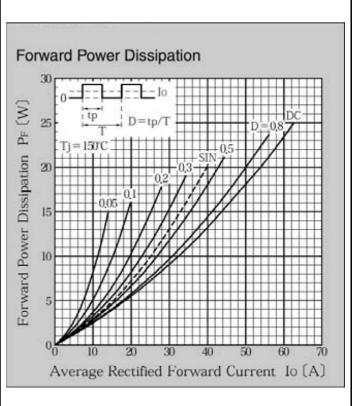
Electrical Characteristics (unless otherwise specified : Tc=25°C)

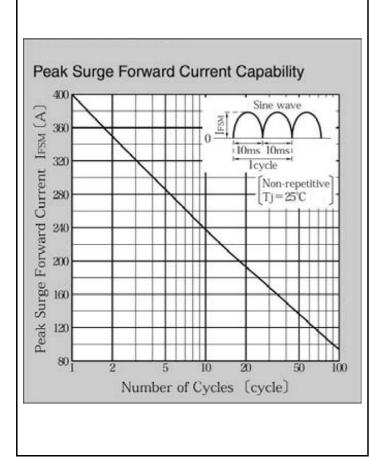
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O mit
Forward voltage	V _F	IF=15A, Pulse measurement, per diode			0.45	V
Reverse current	I _R	VR=30V, Pulse measurement, per diode			17	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		1200		pF
Thermal resistance	Rth(j-c)	Junction to case			1.5	°C/W

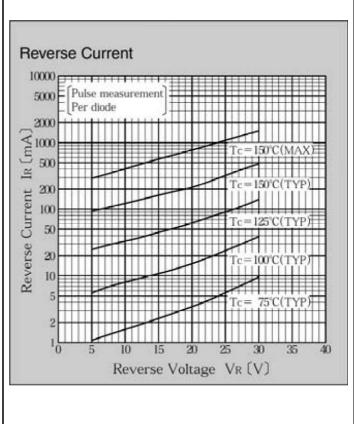
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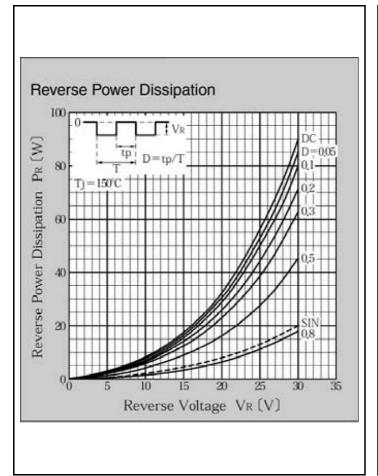
CHARACTERISTIC DIAGRAMS

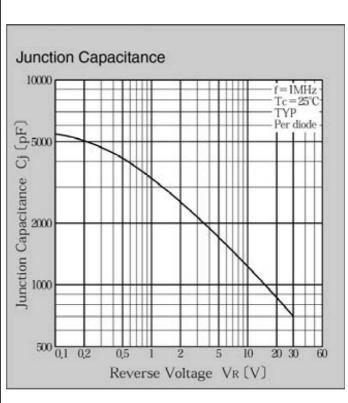


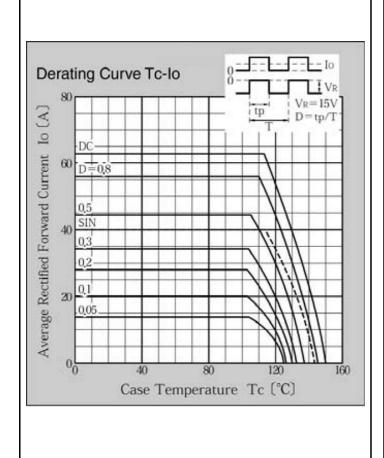


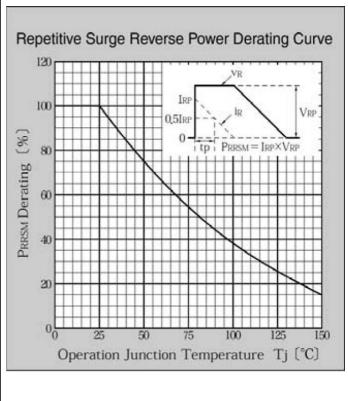


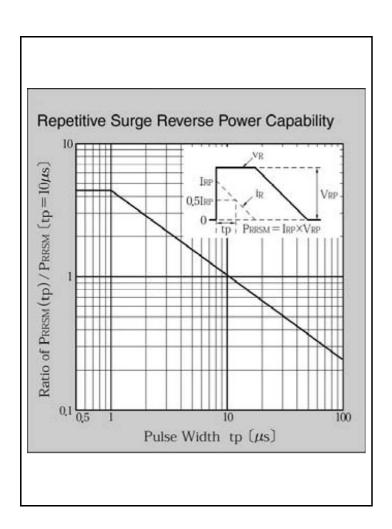






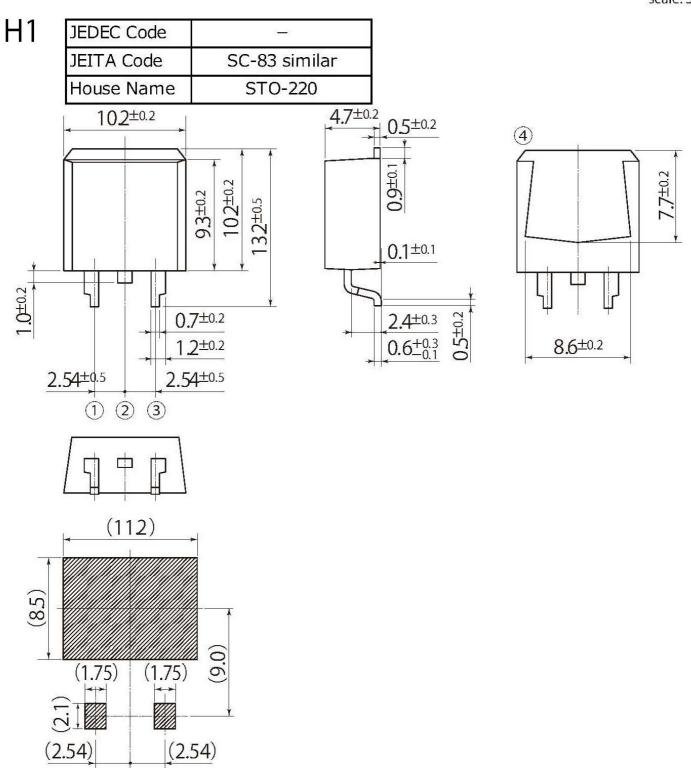






unit:mm

scale: 3/1



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

Referential Soldering Pad

Notes

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[Special applications]

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