

DF10LC20U

Fast Recovery Diodes 200V, 10A

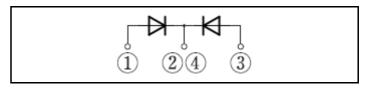
Feature

- 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		-40 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V_{RRM}		200	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=127°C	10	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	80	А

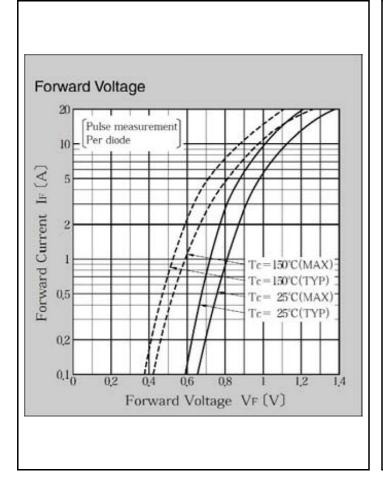
^{*} :See the original Specifications

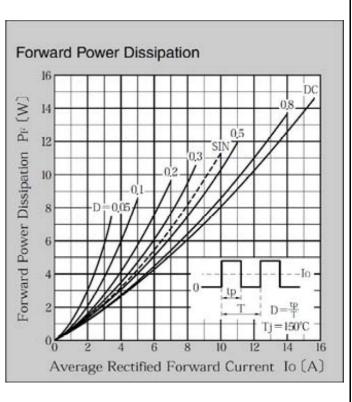
Electrical Characteristics (unless otherwise specified : Tc=25°C)

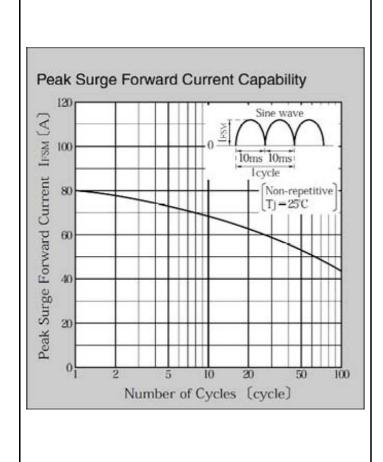
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=5A, Pulse measurement, Per diode			0.98	V
Reverse current	I _R	VR=200V, Pulse measurement, Per diode			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1A, Per Diode			35	ns
Thermal resistance	Rth(j-c)	Junction to case			2	°C/W

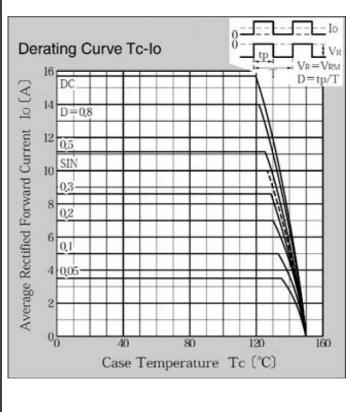
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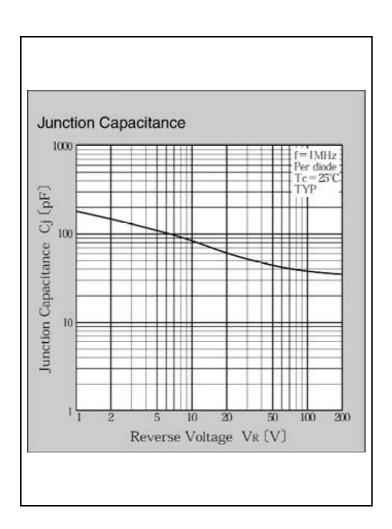
CHARACTERISTIC DIAGRAMS





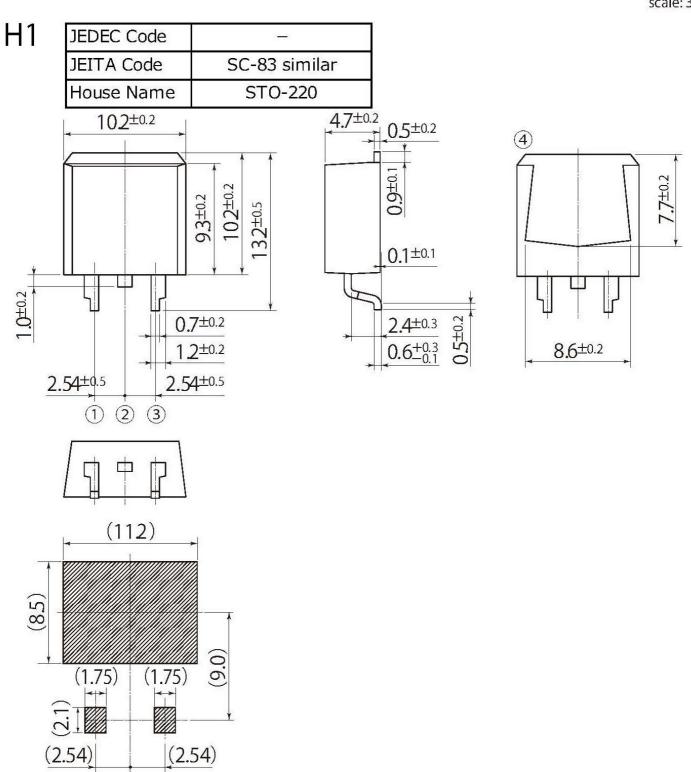






unit:mm

scale: 3/1



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

Referential Soldering Pad

Notes

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[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)

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