

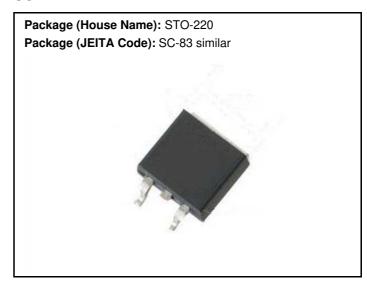
DF8L60US

Fast Recovery Diodes 600V, 8A

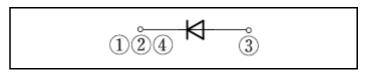
Feature

- SMD
- High Voltage
- · Low Noise
- · 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}		600	٧
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tc=66°C	8	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	Α

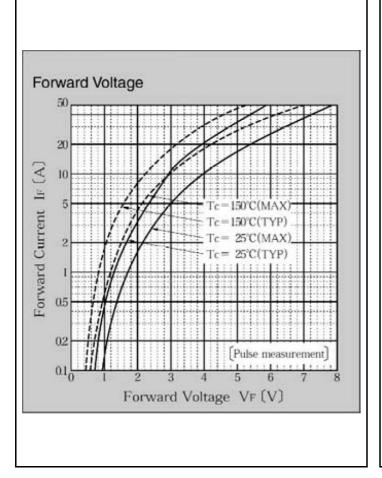
^{* :}See the original Specifications

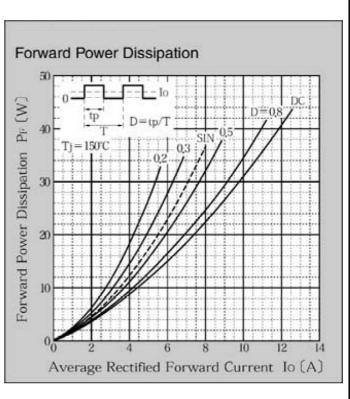
Electrical Characteristics (unless otherwise specified : Tc=25°C)

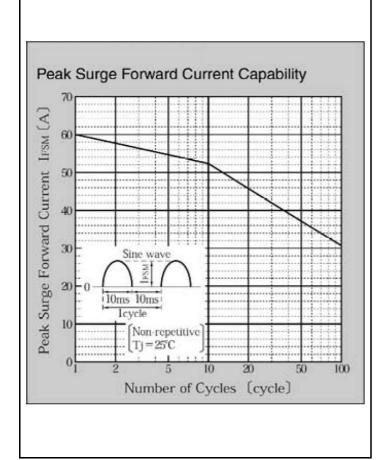
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oilit
Forward voltage	V _F	IF=8A, Pulse measurement			3.6	V
Reverse current	I _R	VR=600V, Pulse measurement			50	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.1IR			25	ns
Total capacitance	Ct	f=1MHz, VR=10V		24		pF
Thermal resistance	Rth(j-c)	Junction to case			2.3	°C/W

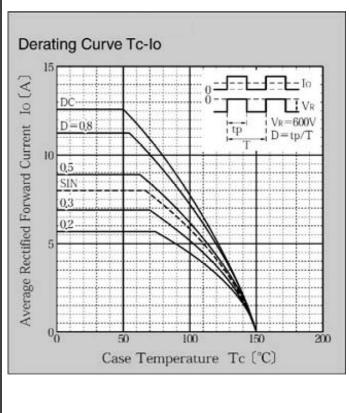
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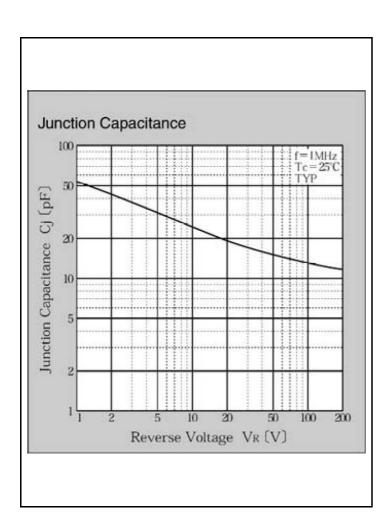
CHARACTERISTIC DIAGRAMS





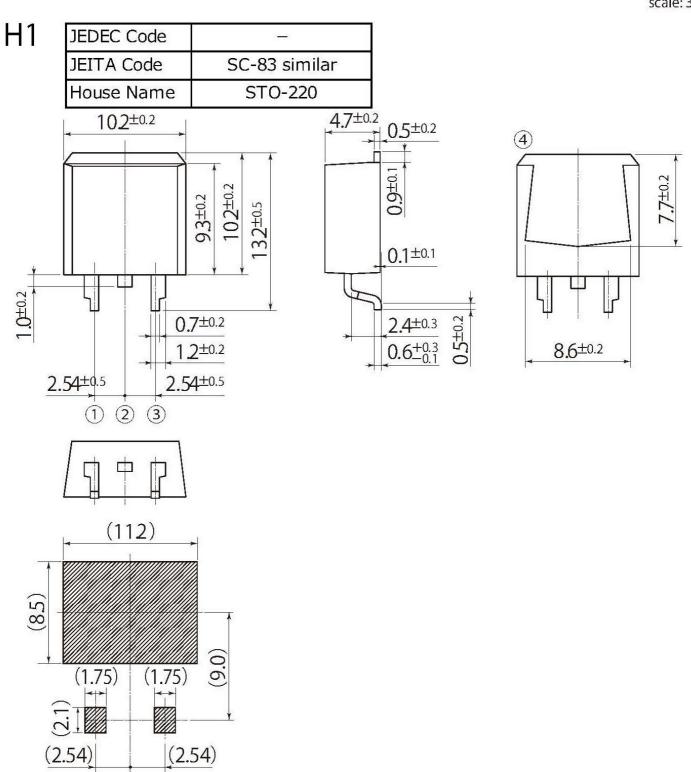






unit:mm

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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