

DF20LC30
Fast Recovery Diodes
300V, 20A

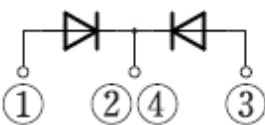
- Feature
- SMD
 - High Recovery Speed
 - Pb free terminal
 - RoHS:Yes

OUTLINE

Package (House Name): STO-220
Package (JEITA Code): SC-83 similar



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}		300	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=124°C	20	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	180	A

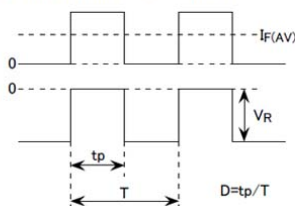
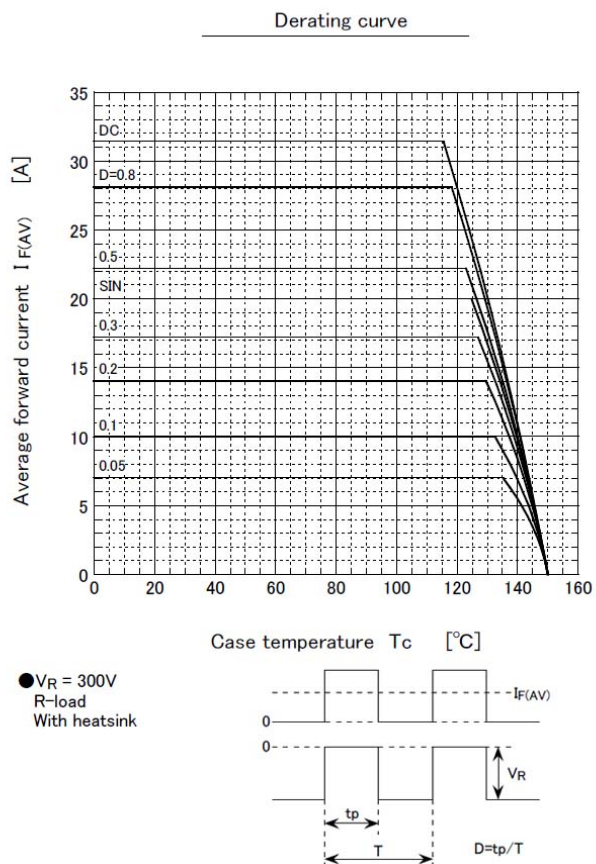
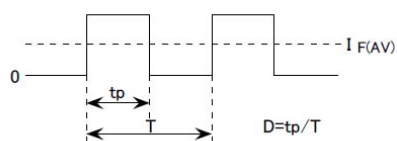
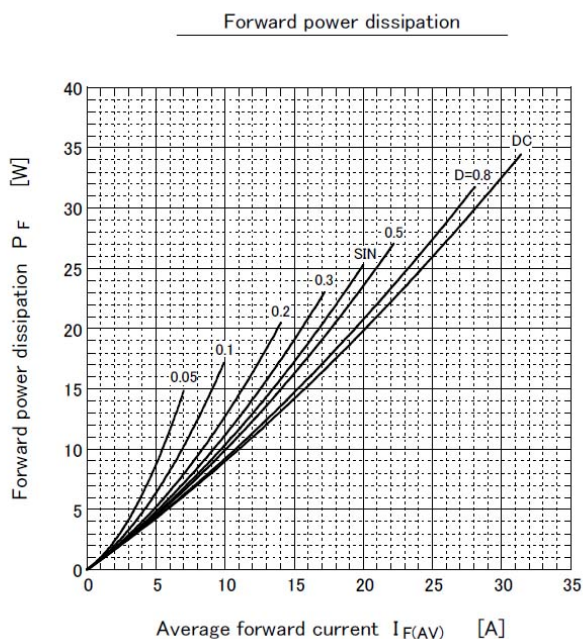
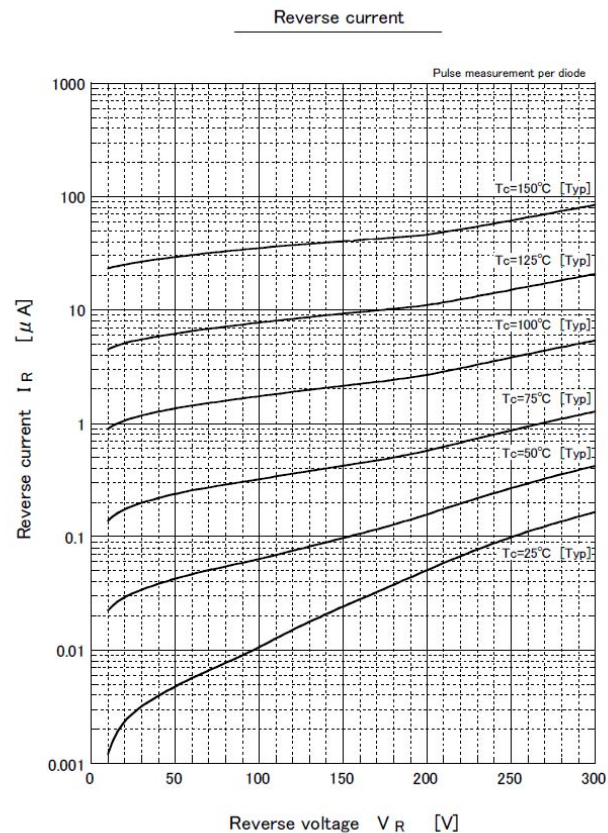
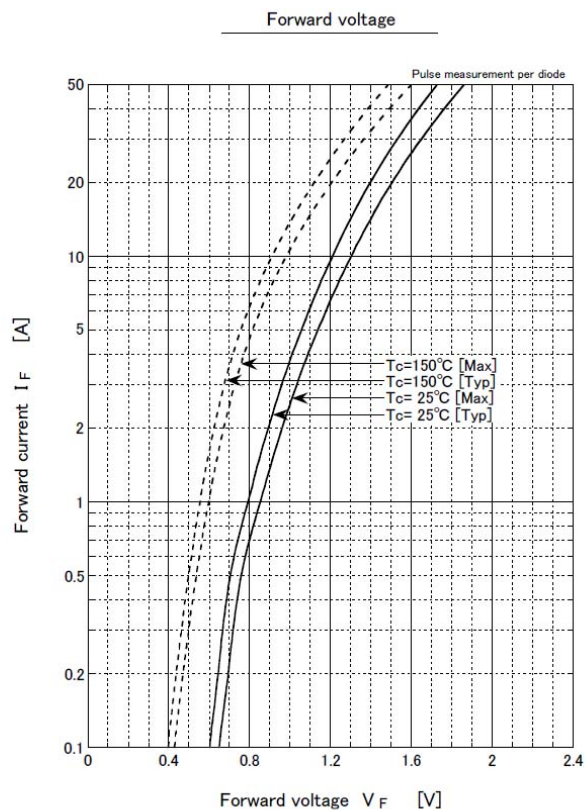
※ :See the original Specifications

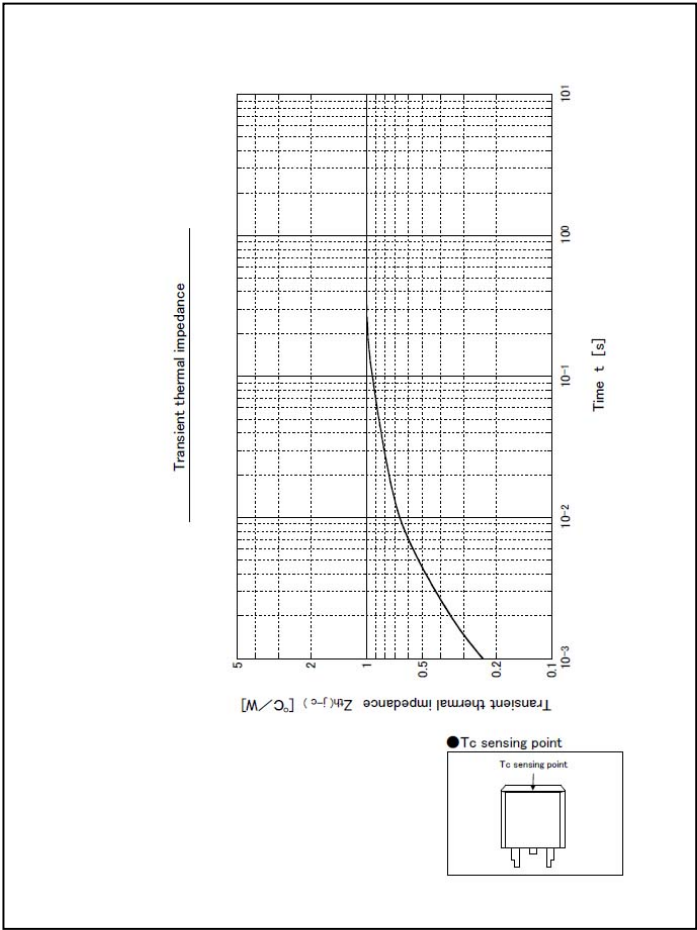
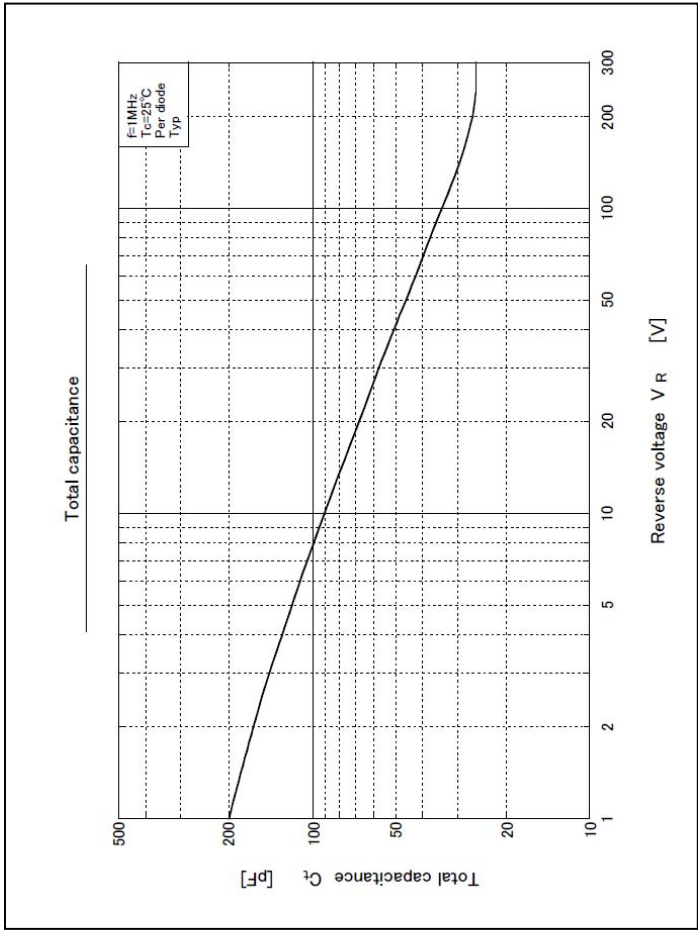
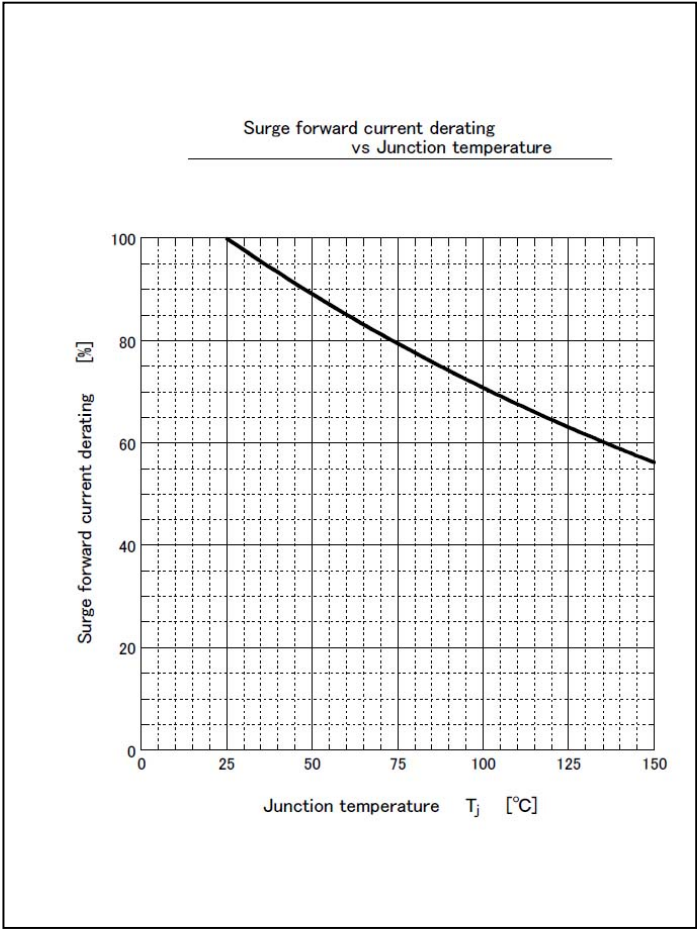
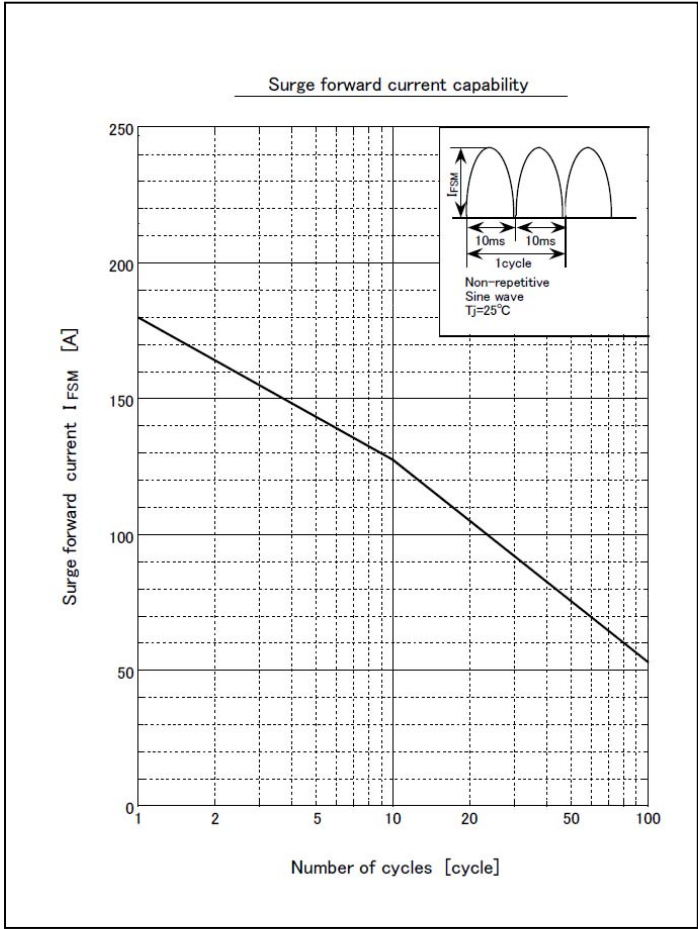
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=10A, Pulse measurement, Per diode			1.3	V
Reverse current	I _R	VR=300V, Pulse measurement, Per diode			25	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR, Per Diode			30	ns
Total capacitance	Ct	f=1MHz, VR=10V, Per Diode		90		pF
Thermal resistance	Rth(j-c)	Junction to case			1	°C/W

※ :See the original Specifications

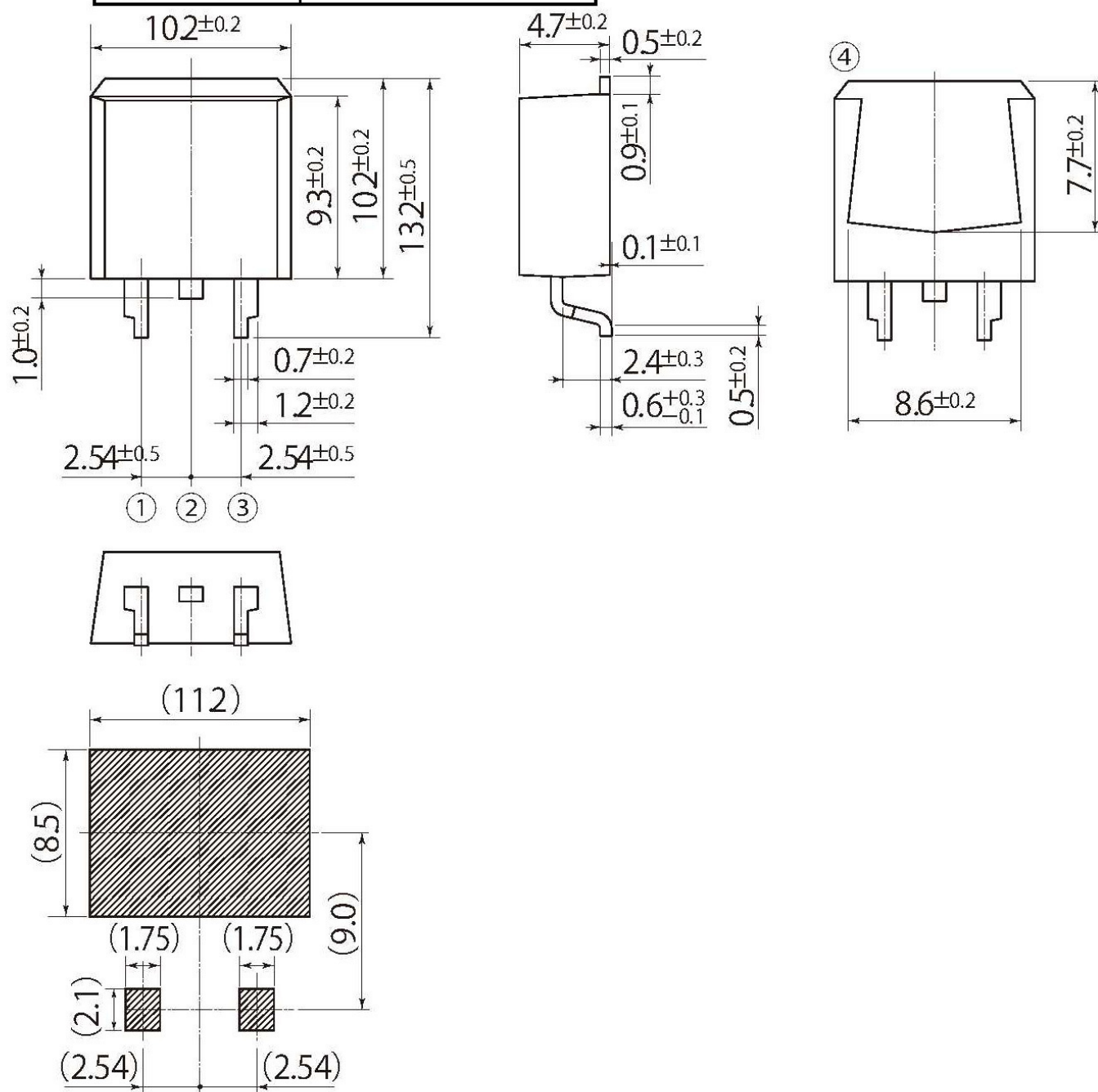
CHARACTERISTIC DIAGRAMS





H1

JEDEC Code	—
JEITA Code	SC-83 similar
House Name	STO-220



Referential Soldering Pad

- Optimize soldering pad to the board design and soldering condition.

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