

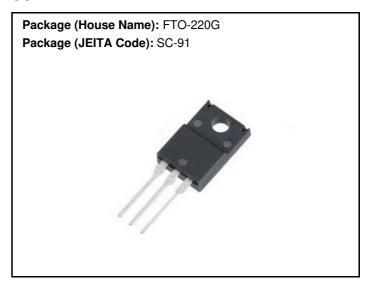
SG20SC3LM

Schottky Barrier Diodes 30V, 20A

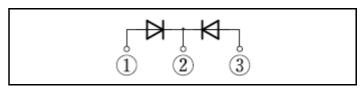
Feature

- · 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	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	٧
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=124°C	20	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	250	А
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	580	А
Dielectric strength	Vdis	Terminals to case backside, AC 1 minute.	1.5	kV
Mounting torque	TOR	(Recommended torque: 0.3N·m)	0.5	N∙m

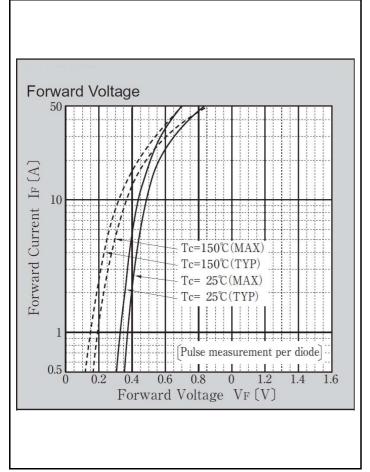
st :See the original Specifications

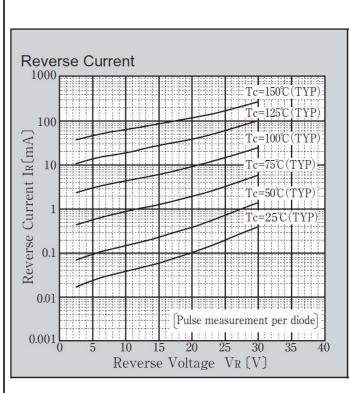
Electrical Characteristics (unless otherwise specified : Tc=25°C)

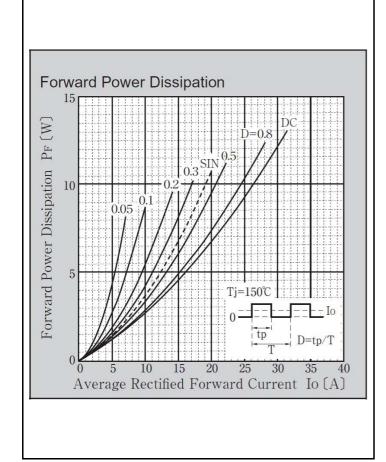
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=8A, Pulse measurement, per diode		0.42	0.45	V
Reverse current	I _R	VR=30V, Pulse measurement, per diode			9	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		570		pF
Thermal resistance	Rth(j-c)	Junction to case			2	°C/W

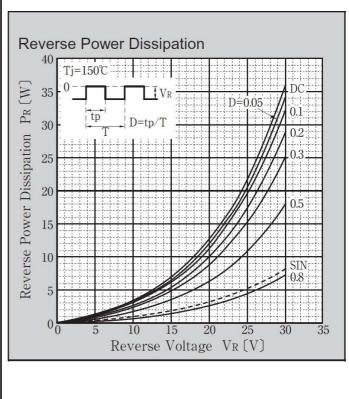
^{*} :See the original Specifications

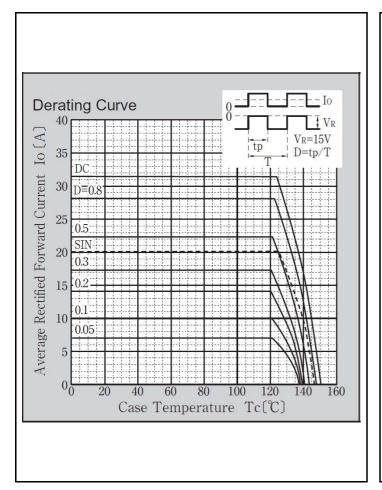
CHARACTERISTIC DIAGRAMS

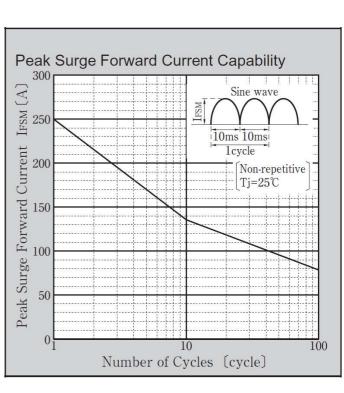


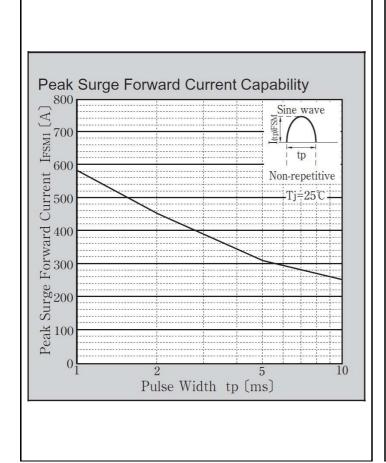


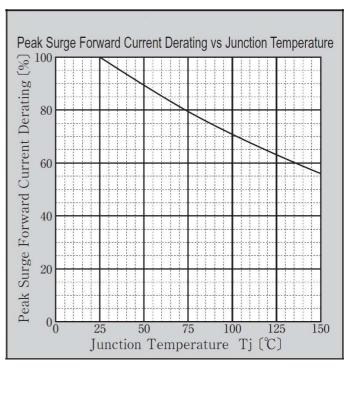


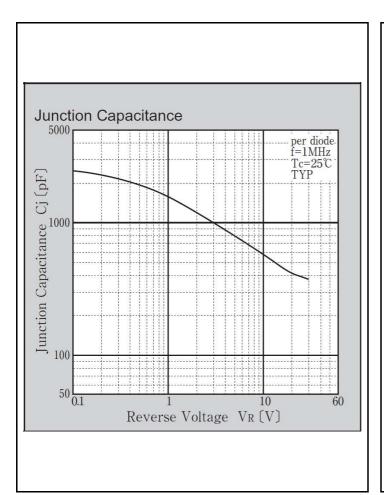


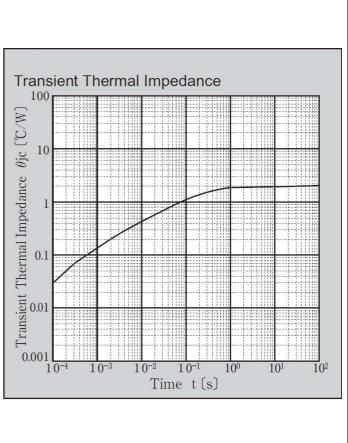








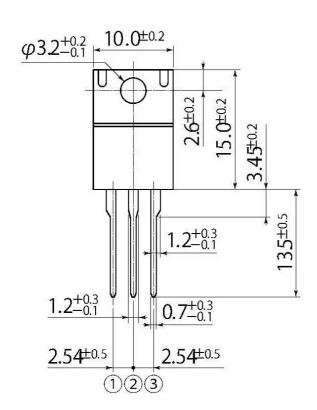


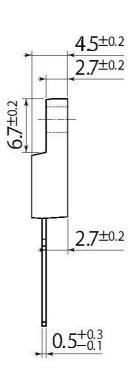


scale: 2/1

J9

JEDEC Code	_		
JEITA Code	SC-91		
House Name	FTO-220G(3pin)		





Notes

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