

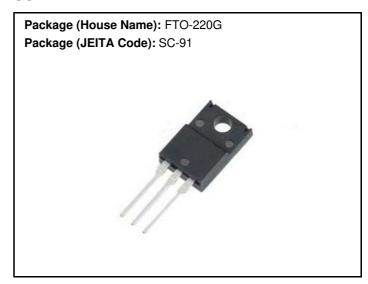
SG40TC12M

Schottky Barrier Diodes 120V, 40A

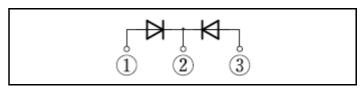
Feature

- · High Recovery Speed
- Tj=175°C
- Low I_R
- 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 175	°C
Junction temperature	Tj		175	°C
Repetitive peak reverse voltage	V_{RRM}		120	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	350	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

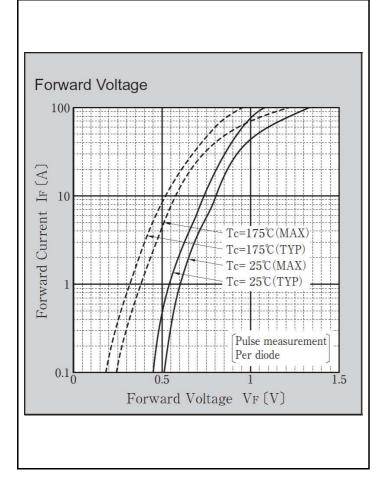
^{* :} See the original Specifications

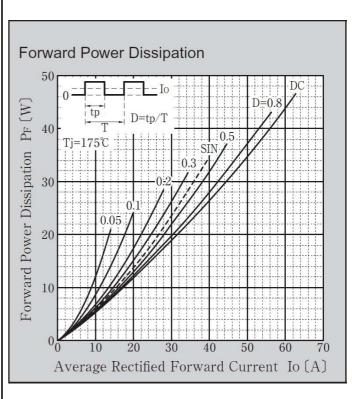
Electrical Characteristics (unless otherwise specified : Tc=25°C)

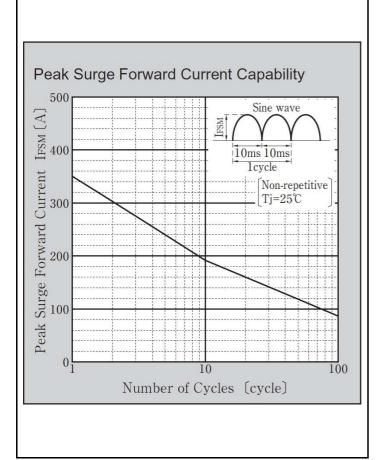
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=20A, Pulse measurement, per diode		0.81	0.87	V
Reverse current	I _R	VR=120V, Pulse measurement, per diode			0.06	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		336		pF
Thermal resistance	Rth(j-c)	Junction to case			1.8	°C/W

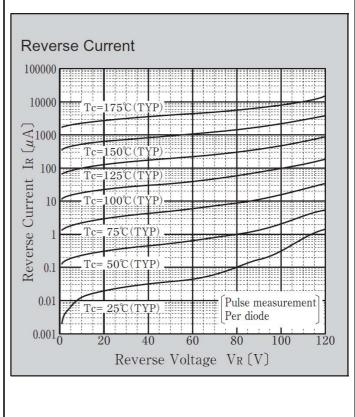
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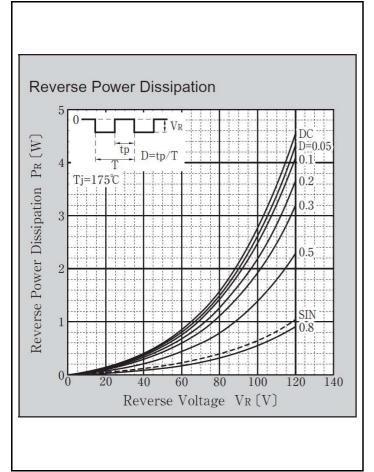
CHARACTERISTIC DIAGRAMS

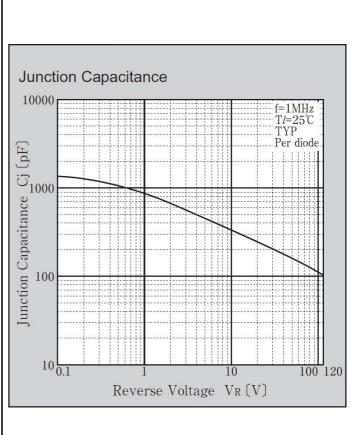


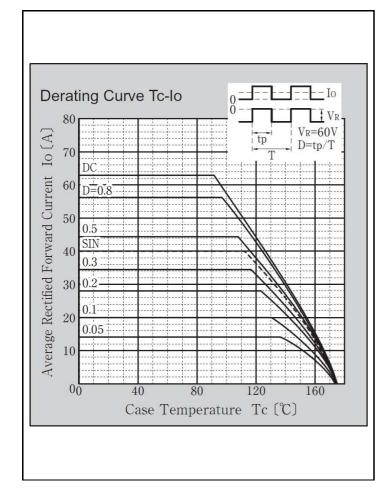










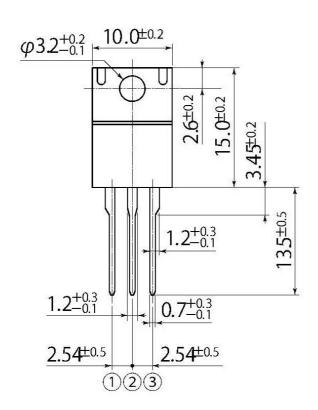


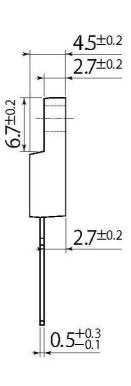
unit:mm

scale: 2/1

J9

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





Notes

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