

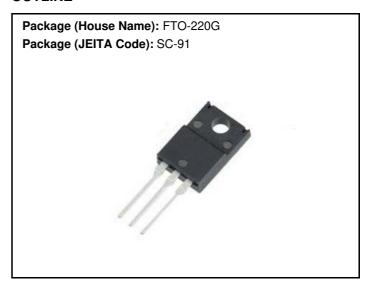
SG30TC10M

Schottky Barrier Diodes 100V, 30A

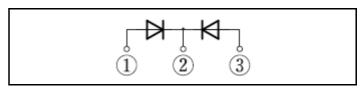
Feature

- · High Recovery Speed
- Tj=175°C
- Ultra low IR
- 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		-55 to 175	°C
Repetitive peak reverse voltage	V_{RRM}		100	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=126°C	30	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	300	Α
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

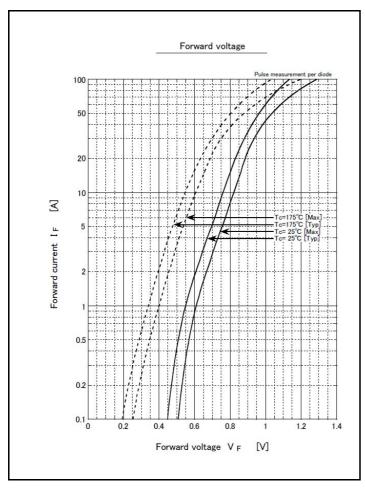
^{* :} See the original Specifications

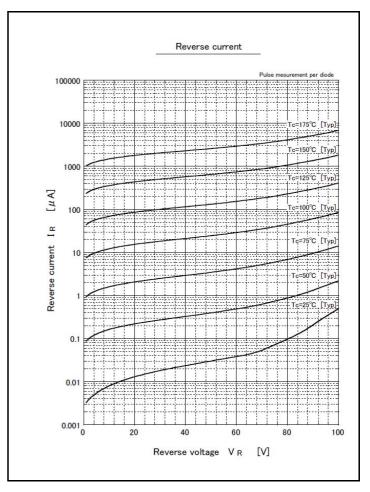
Electrical Characteristics (unless otherwise specified : Tc=25°C)

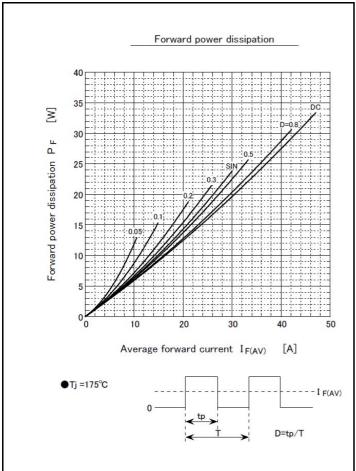
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Omi
Forward voltage	V _F	IF=15A, Pulse measurement, per diode		0.8	0.86	V
Reverse current	I _R	VR=100V, Pulse measurement, per diode			0.04	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		242		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2	°C/W

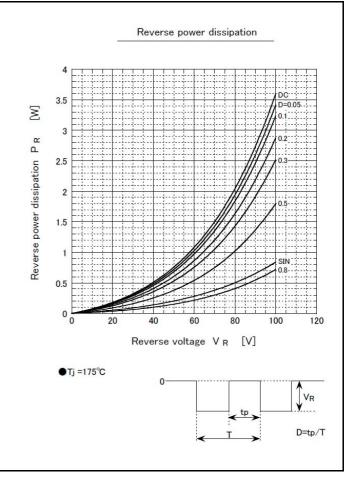
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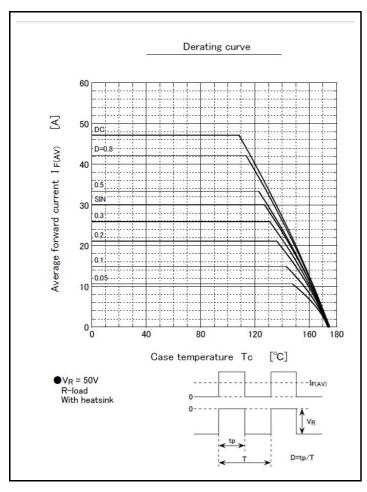
CHARACTERISTIC DIAGRAMS

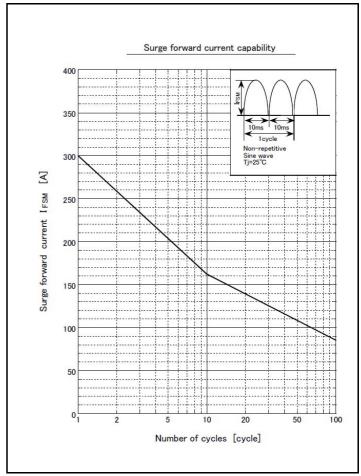


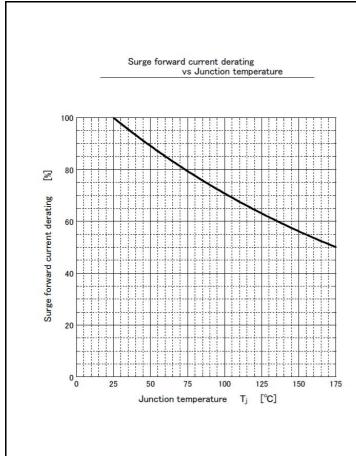


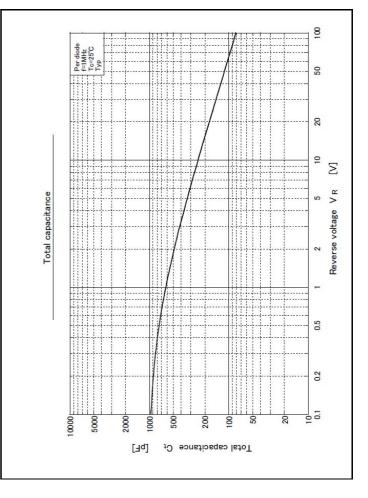


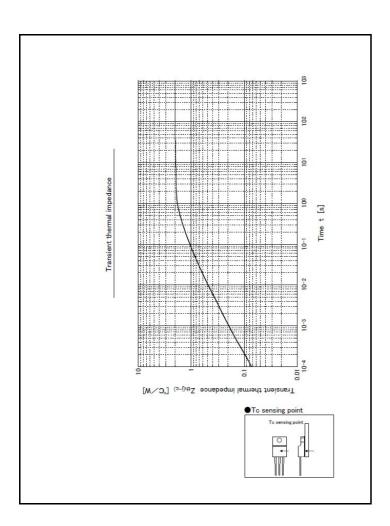






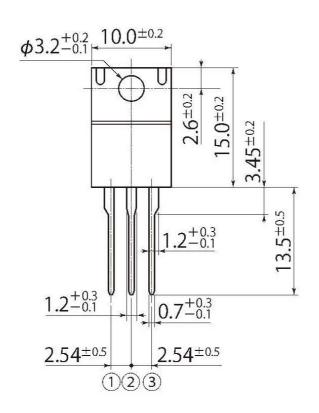


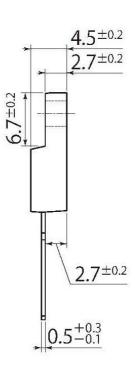




J9

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





Notes

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[Special applications]

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