

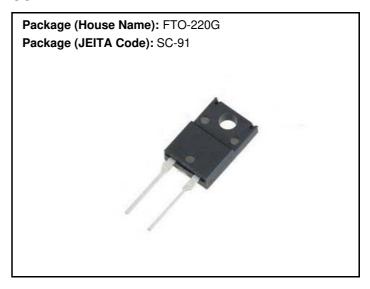
SG5S9M

Schottky Barrier Diodes 90V, 5A

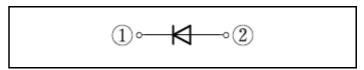
Feature

- · High Recovery Speed
- 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		-55 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		90	V
Repetitive peak surge reverse voltage	V_{RRSM}	Pulse width 0.5ms, duty=1/40	100	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink ,Tc=124°C	5	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	90	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

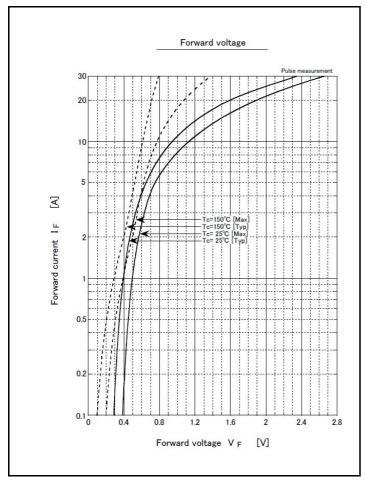
^{* :} See the original Specifications

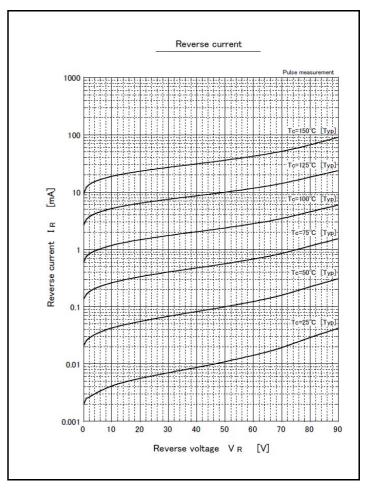
Electrical Characteristics (unless otherwise specified : Tc=25°C)

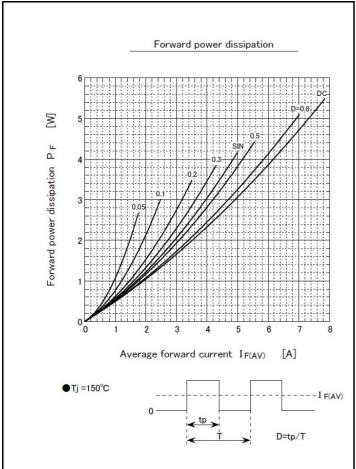
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onne
Forward voltage	V _F	IF=5A, Pulse measurement		0.65	0.75	V
Reverse current	I _R	VR=90V, Pulse measurement			0.5	mA
Total capacitance	Ct	f=1MHz, VR=10V		140		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			5	°C/W

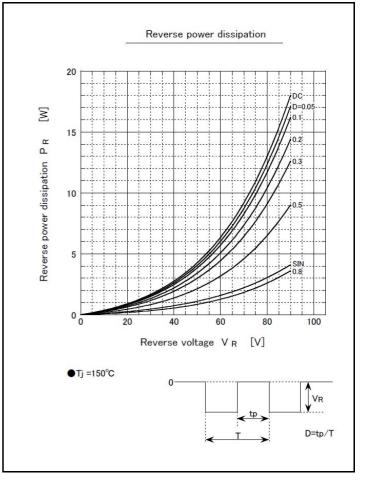
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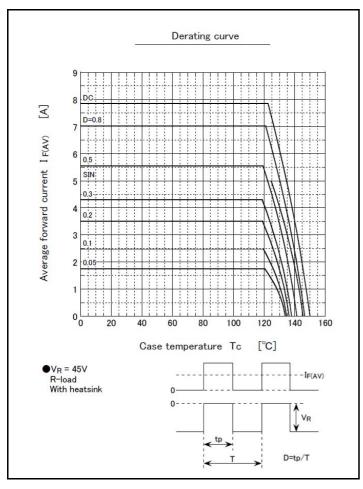
CHARACTERISTIC DIAGRAMS

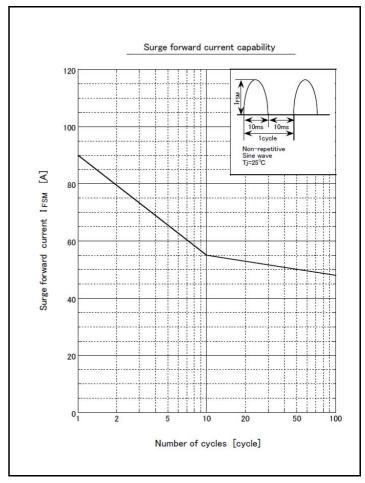


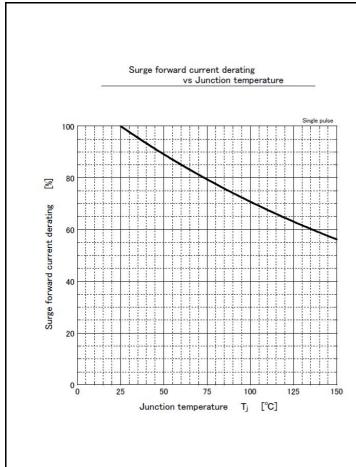


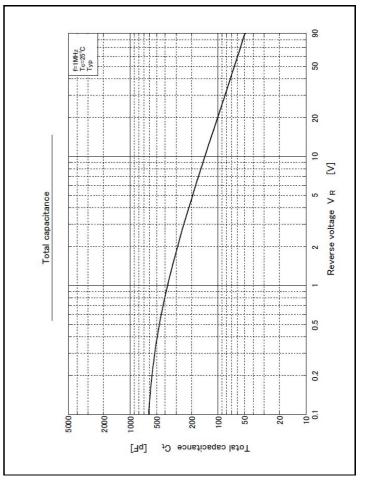


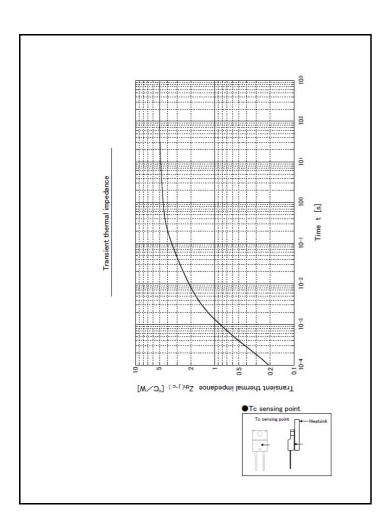






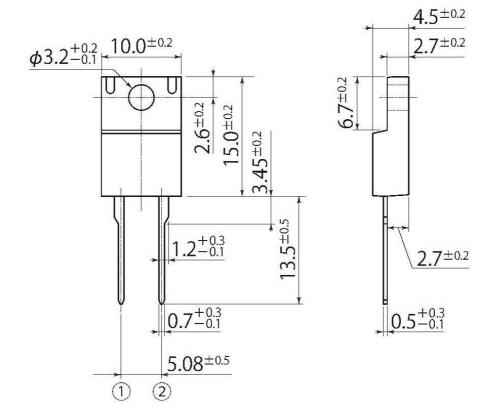






J4

JEDEC Code	_		
JEITA Code	SC-91		
House Name	FTO-220G(2pin)		



Notes

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(Special applications)

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(Specific applications)

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