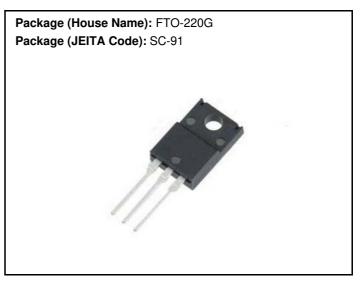
SG20SC9M

Schottky Barrier Diodes 90V, 20A

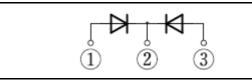
Feature

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

OUTLINE



Equivalent circuit



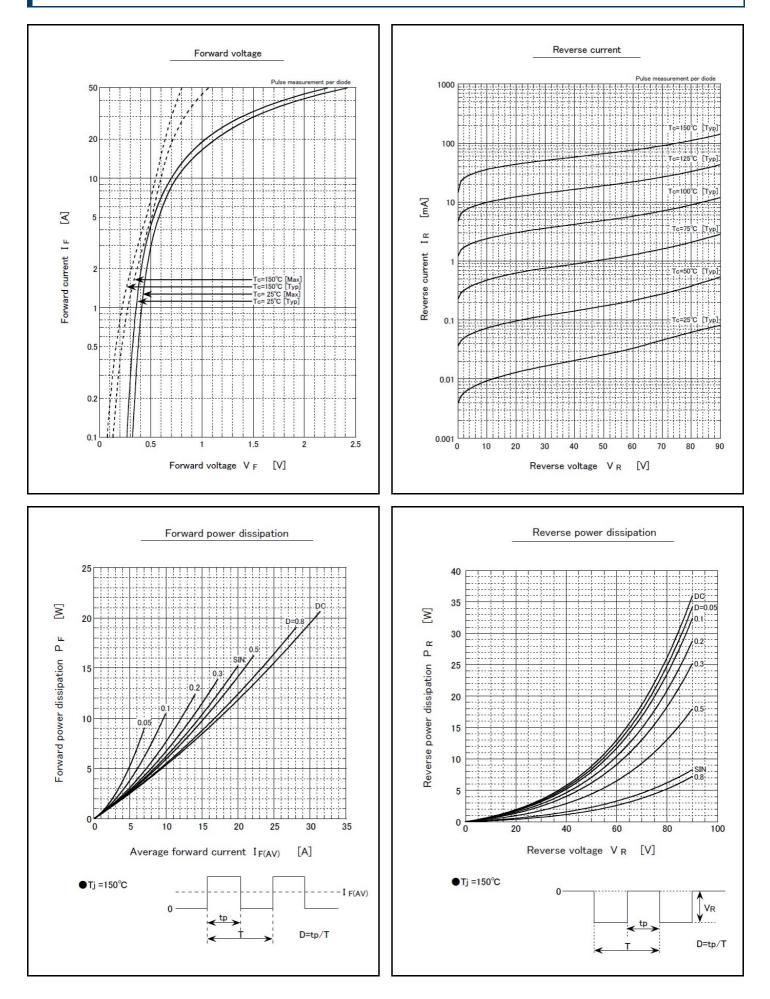
Absolute Maximum Ratings (unless otherwise specified : Tc=25°C) Item Symbol Conditions Unit Ratings °C Storage temperrature -55 to 150 Tstg Junction temperature -55 to 150 °C Τj ٧ Repetitive peak reverse voltage 90 V_{RRM} Repetitive peak surge reverse Pulse width 0.5ms, duty=1/40 100 ٧ V_{RRSM} voltage 50Hz sine wave, Resistance load, Rating for each Average forward current I_F(AV) 20 А diode IF(AV)/2, With heatsink, Tc=112°C 50Hz sine wave, Non-repetitive, 1cycle, Peak value, Surge forward current 200 А I_{FSM} Tj=150°C Vdis kV **Dielectric strength** Terminals to case backside, AC 1 minute. 1.5 TOR 0.5 Mounting torque (Recommended torque: 0.3N·m) N۰m

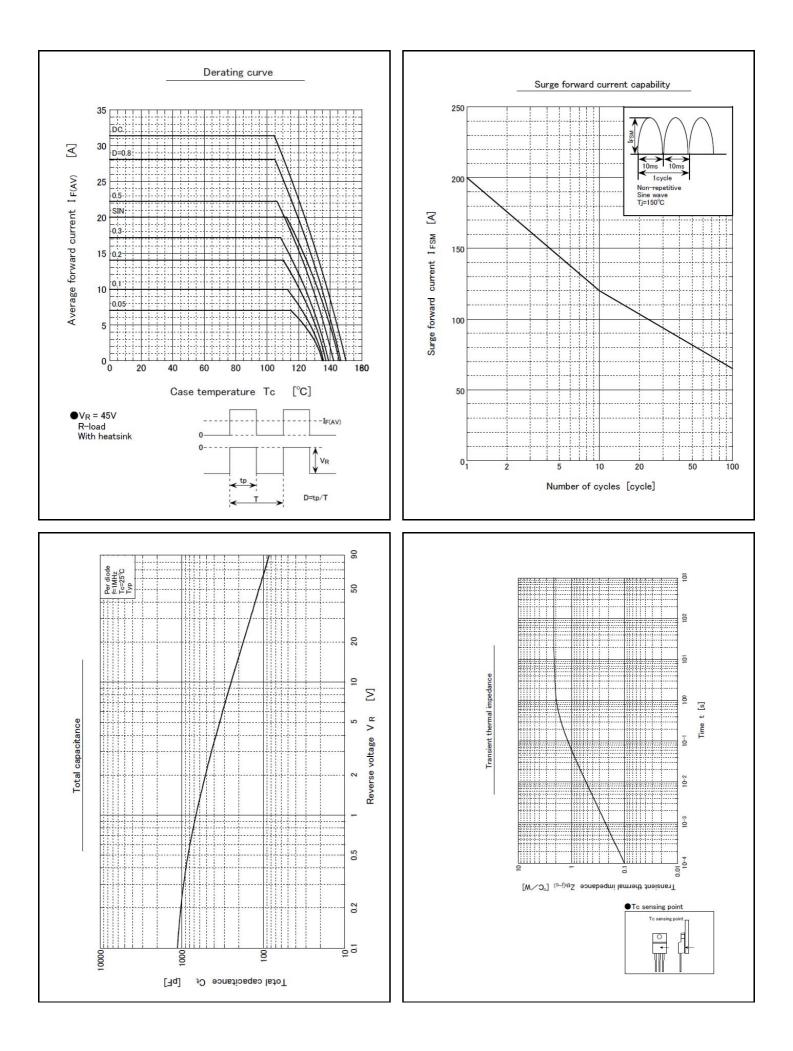
* : See the original Specifications

Item	Symbol	Conditions	Ratings			Unit
		Conditions		ТҮР	MAX	Onit
Forward voltage	V _F	IF=10A, Pulse measurement, per diode		0.7	0.75	V
Reverse current	I _R	VR=90V, Pulse measurement, per diode			1	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		245		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2.2	°C/W

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

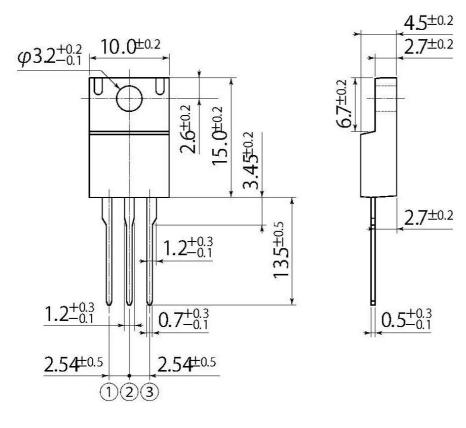




unit:mm

scale: 2/1

J9	JEDEC Code	_
	JEITA Code	SC-91
	House Name	FTO-220G(3pin)



Notes

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[Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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