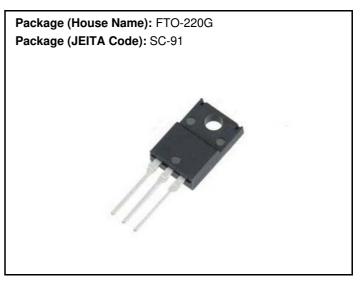
SG20SC4M

Schottky Barrier Diodes 40V, 20A

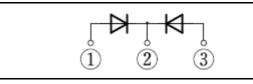
Feature

- · High Recovery Speed
- Low V_F
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



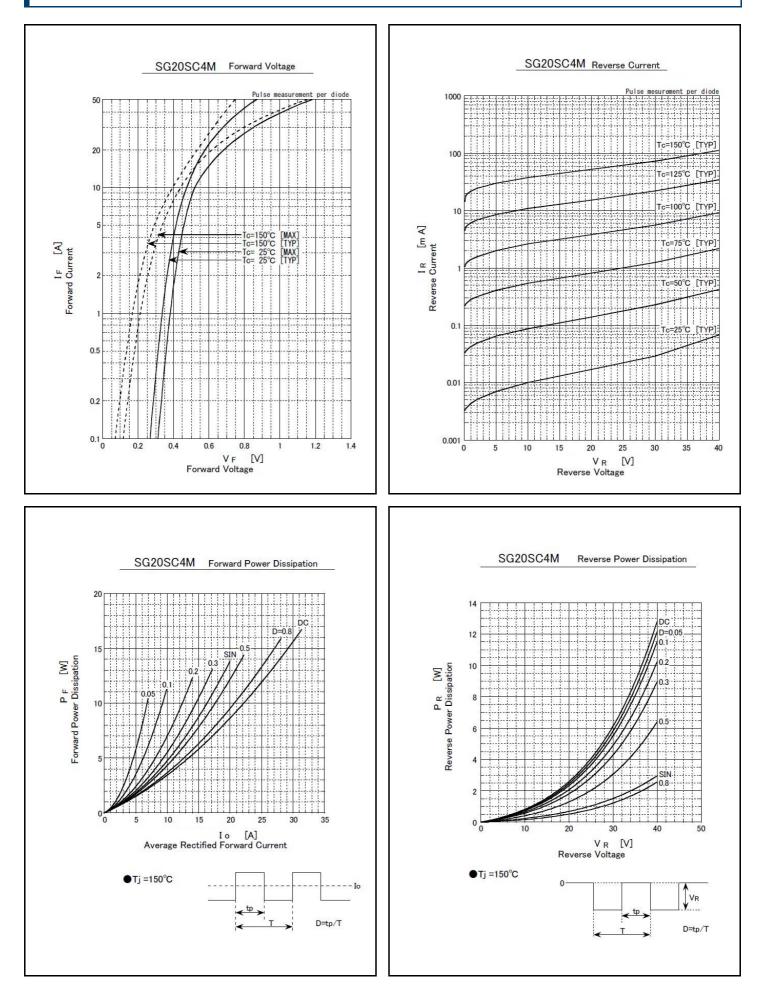
Absolute Maximum Ratings (unless otherwise specified : Tc=25°C) Item Symbol Conditions Unit Ratings °C Storage temperrature -55 to 150 Tstg Junction temperature 150 °C Τj ٧ Repetitive peak reverse voltage 40 V_{RRM} Repetitive peak surge reverse Pulse width 0.5ms, duty=1/40 45 ٧ V_{RRSM} voltage 50Hz sine wave, Resistance load, Rating for each Average forward current I_F(AV) 20 А diode IF(AV)/2, Tc=115°C 50Hz sine wave, Non-repetitive, 1cycle, Peak value, Surge forward current 200 А I_{FSM} Tj=25°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

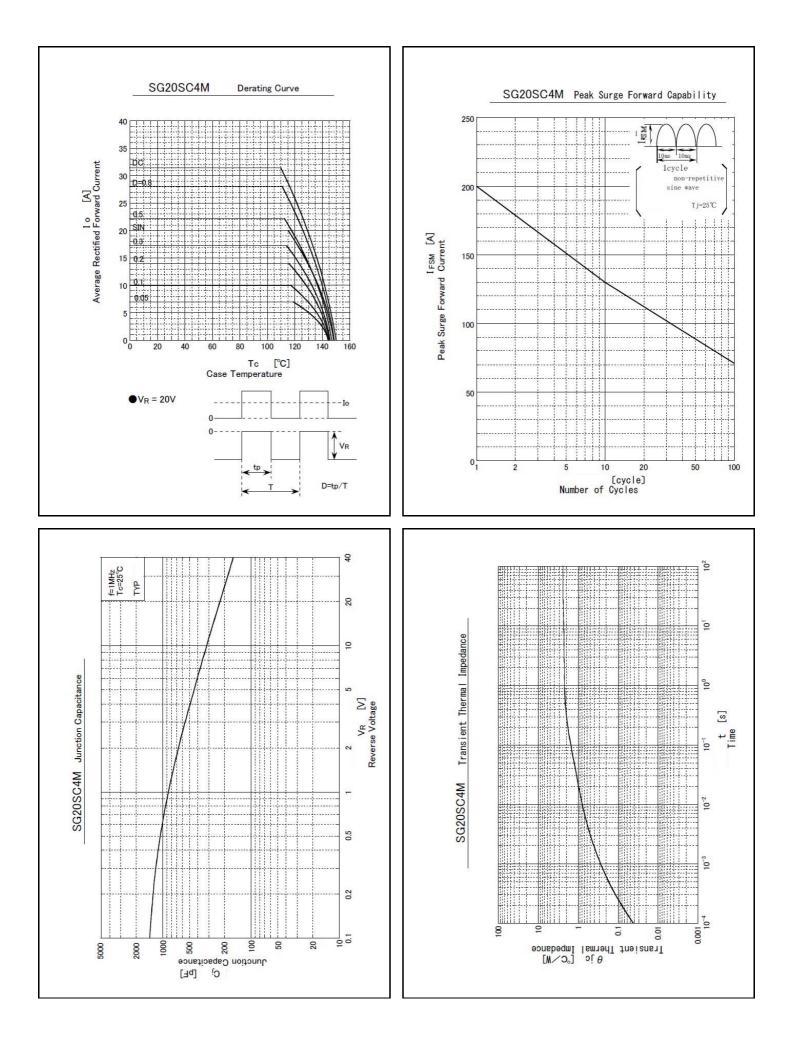
* : See the original Specifications

ltem	Symbol	Conditions	Ratings			Unit
		Conditions		ТҮР	MAX	Onic
Forward voltage	V _F	IF=10A, Pulse measurement, per diode		0.47	0.52	V
Reverse current	I _R	VR=40V, Pulse measurement, per diode			1.1	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		315		pF
Thermal resistance	Rth(j-c)	Junction to case			2.4	°C/W

* : See the original Specifications

CHARACTERISTIC DIAGRAMS

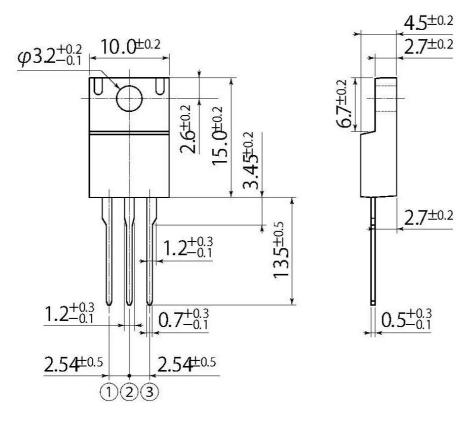




unit:mm

scale: 2/1

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



Notes

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- 2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

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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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