

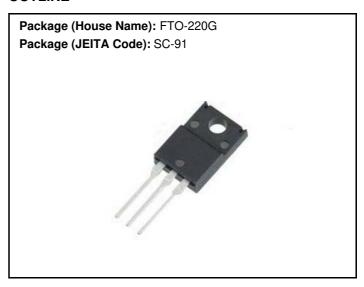
# SG10SC9M

# **Schottky Barrier Diodes 90V, 10A**

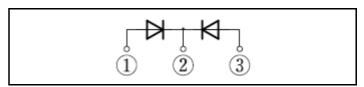
### **Feature**

- · High Recovery Speed
- Tj=175°C
- 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	$V_{RRM}$		90	V
Repetitive peak surge reverse voltage	$V_{RRSM}$	Pulse width 0.5ms, duty=1/40	100	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=139°C	10	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	150	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

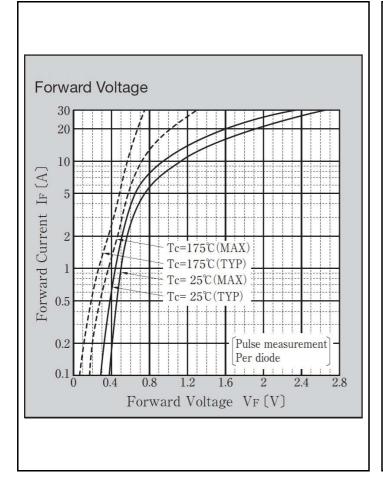
<sup>\* :</sup> See the original Specifications

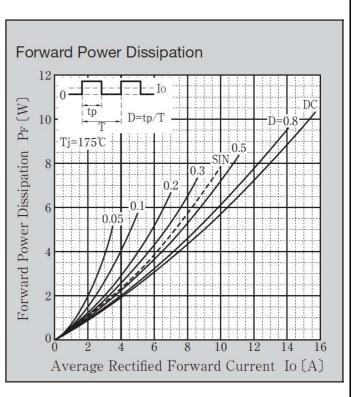
# **Electrical Characteristics** (unless otherwise specified : Tc=25°C)

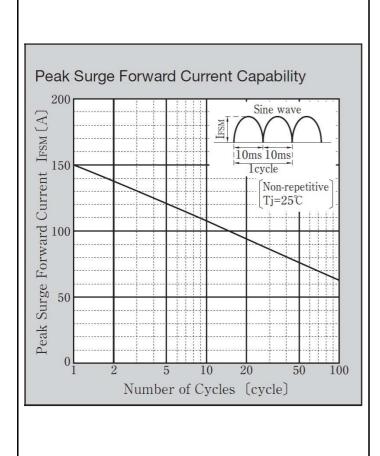
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	IF=5A, Pulse measurement, per diode		0.65	0.75	V
Reverse current	I <sub>R</sub>	VR=90V, Pulse measurement, per diode			0.5	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		140		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			3	°C/W

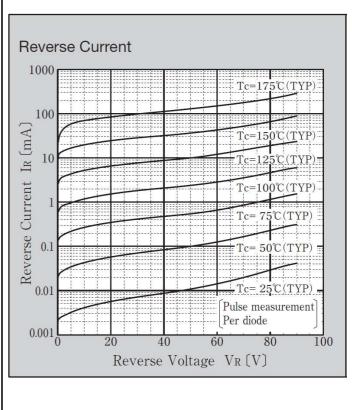
<sup>\*</sup> :See the original Specifications

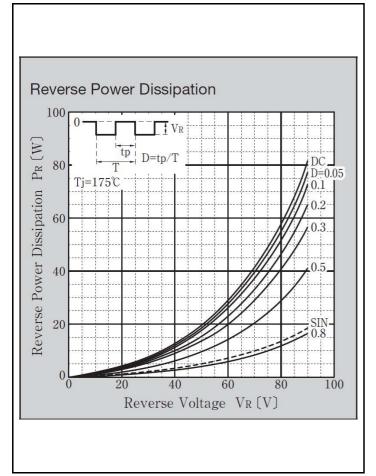
# **CHARACTERISTIC DIAGRAMS**

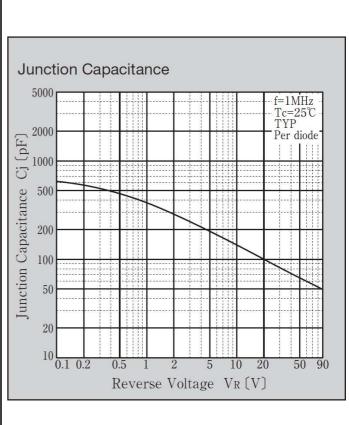


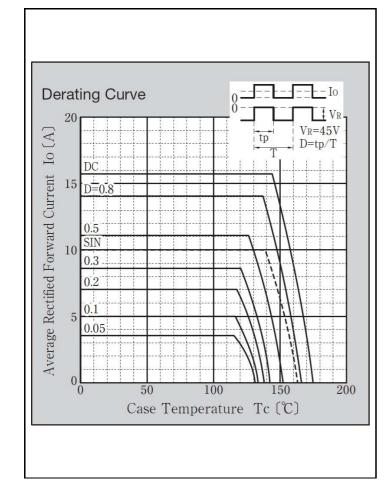










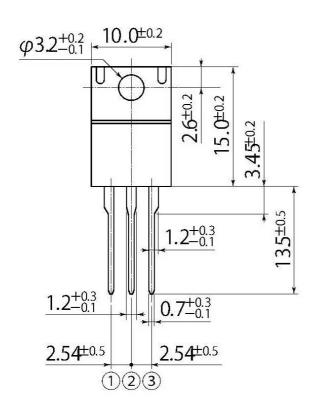


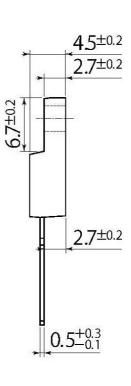
unit:mm

scale: 2/1

J9

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





#### **Notes**

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## [Special applications]

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#### (Specific applications)

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