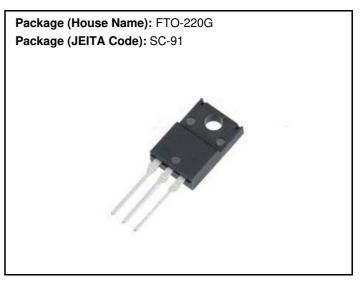
# SG30SC6M

Schottky Barrier Diodes 60V, 30A

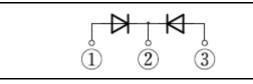
# Feature

- 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 °C Storage temperrature -55 to 150 Tstg Junction temperature Тj -55 to 150 °C V 60 Repetitive peak reverse voltage V<sub>RRM</sub> Repetitive peak surge reverse Pulse width 0.5ms, duty=1/40 65 ٧ V<sub>RRSM</sub> voltage 50Hz sine wave, Resistance load, Rating for each Average forward current I⊨(AV) 30

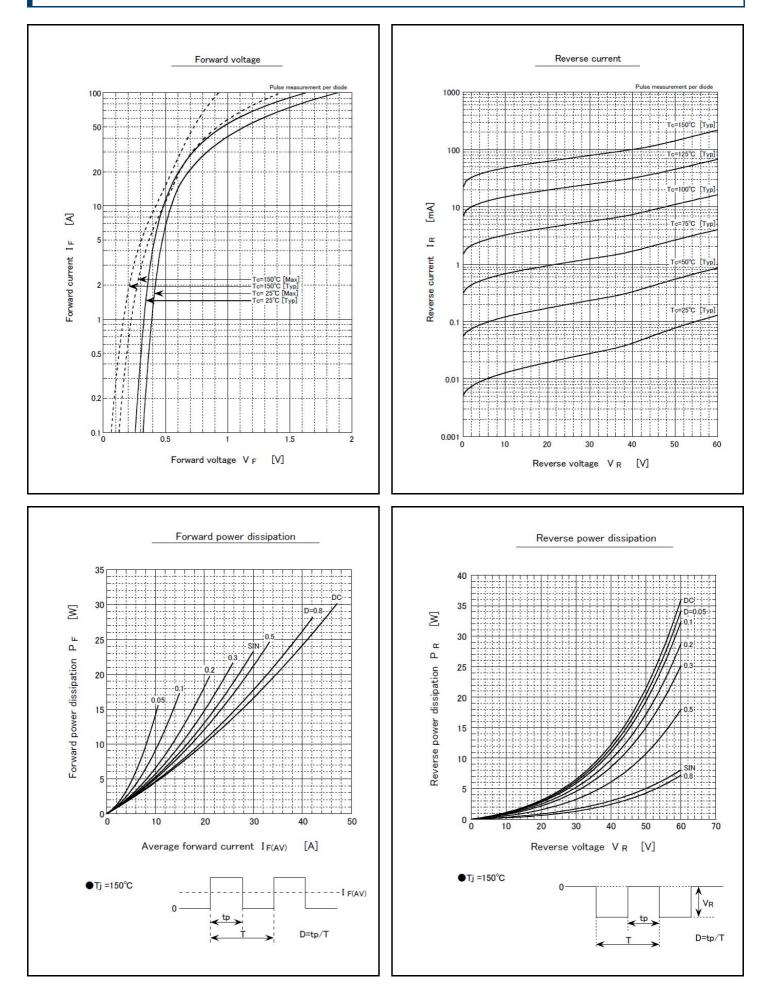
Average forward current	IF(AV)	diode IF(AV)/2, With heatsink, Tc=100°C	50	~
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	300	A
Dielectric strength	Vdis	Terminals to case backside, AC 1 minute.	1.5	kV
Mounting torque	TOR	(Recommended torque: 0.3N·m)	0.5	N∙m

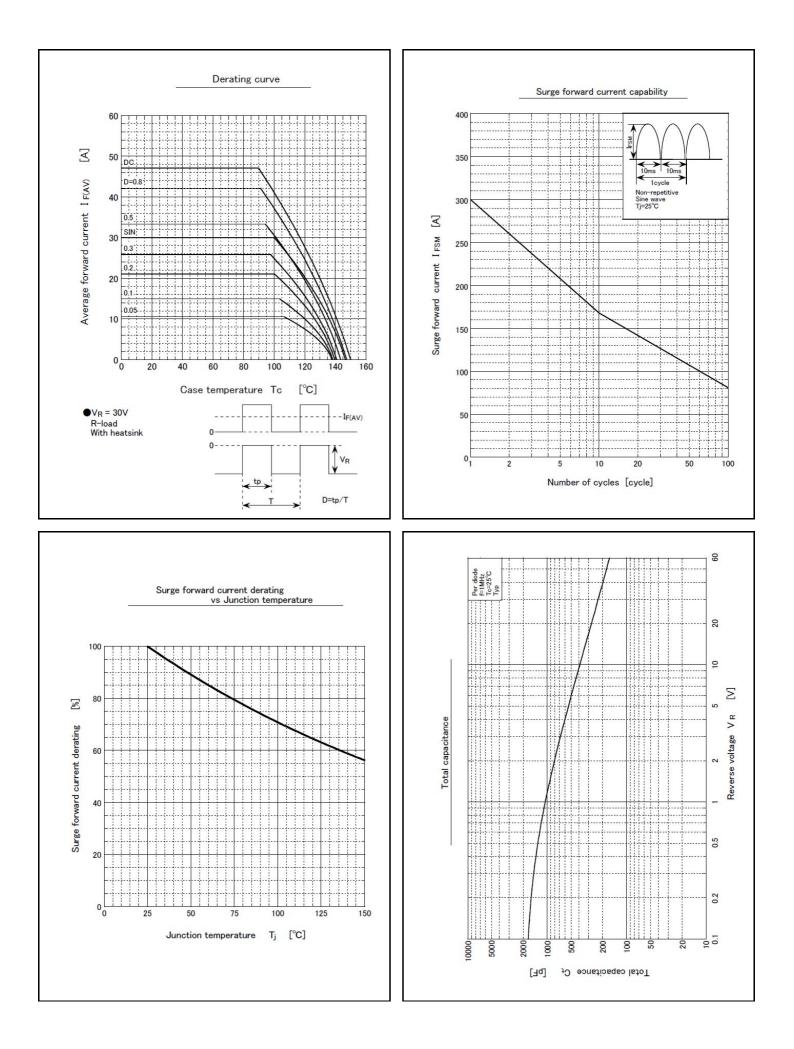
\* : See the original Specifications

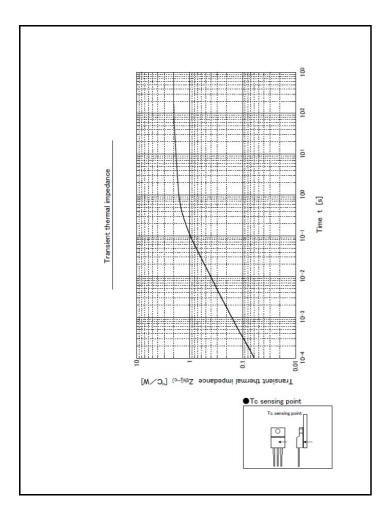
Item	Symbol	Conditions	Ratings			Unit
nem			MIN	ТҮР	MAX	Onne
Forward voltage	V <sub>F</sub>	IF=15A, Pulse measurement, per diode		0.55	0.61	V
Reverse current	everse current I <sub>R</sub> VR=60V, Pulse measurement, per diode				1.2	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		385		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2	°C/W

\* : See the original Specifications

# **CHARACTERISTIC DIAGRAMS**



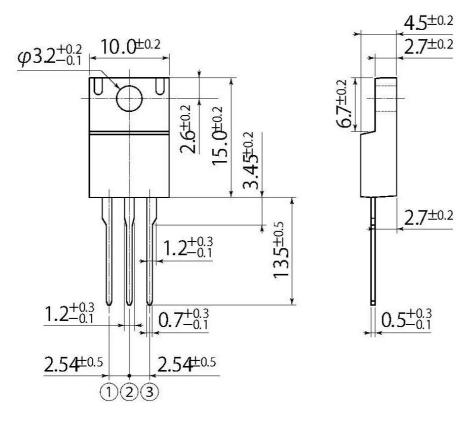




unit:mm

scale: 2/1

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



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