SG30SC4M

Schottky Barrier Diodes 40V, 30A

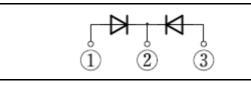
Feature

- · 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 -55 to 150 °C Τj 40 ٧ Repetitive peak reverse voltage 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) 30 А diode IF(AV)/2, With heatsink, Tc=101°C 50Hz sine wave, Non-repetitive, 1cycle, Peak value, Surge forward current 300 А I_{FSM} Tj=25°C

Terminals to case backside, AC 1 minute.

(Recommended torque: 0.3N·m)

* : See the original Specifications

Dielectric strength

Mounting torque

Vdis

TOR

1.5

0.5

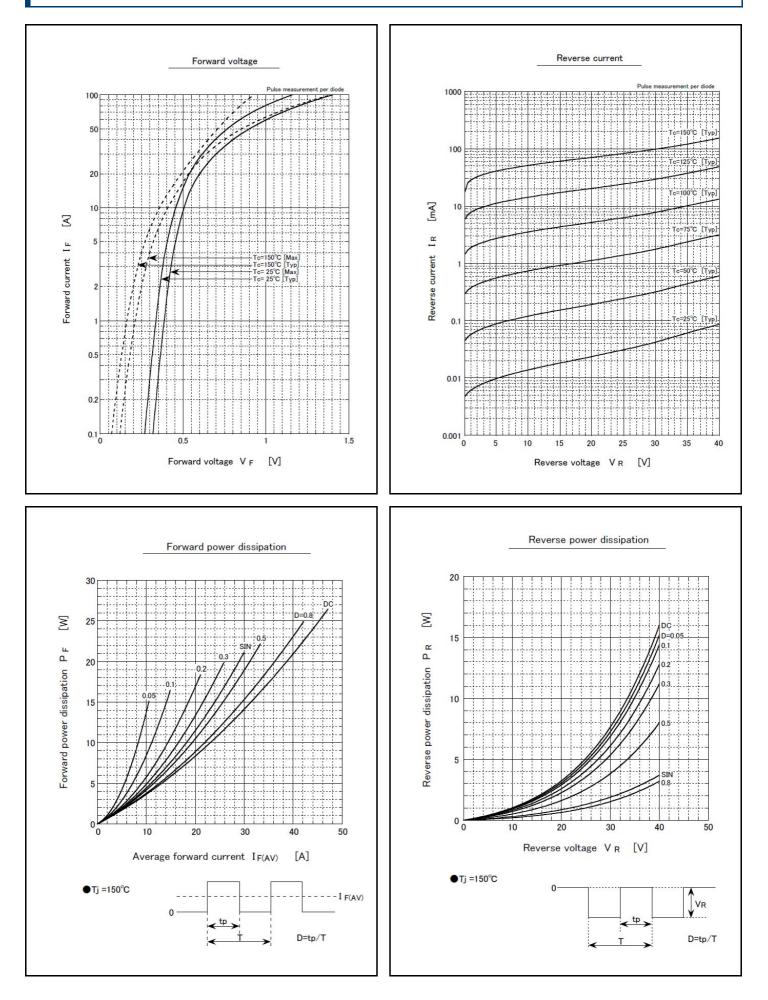
kV

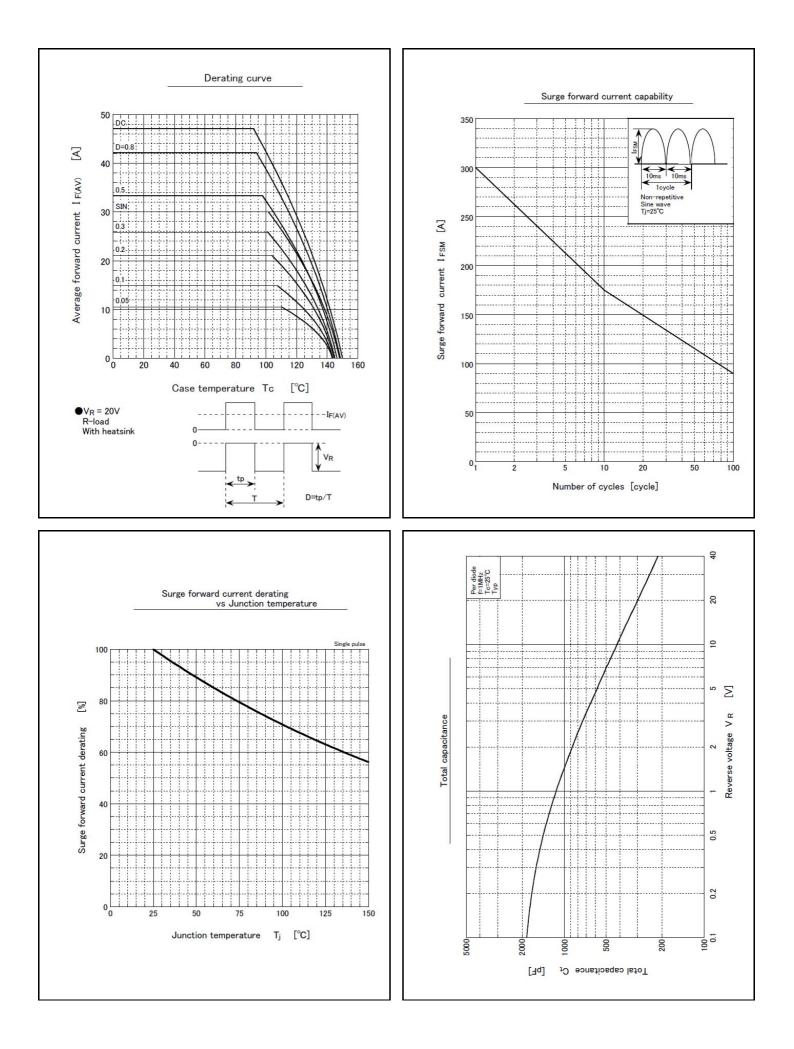
N۰m

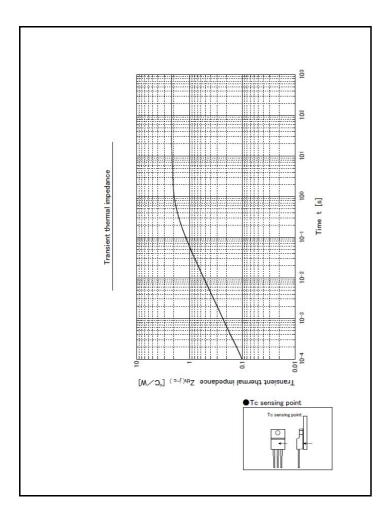
Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	
Forward voltage	V _F	IF=15A, Pulse measurement, per diode		0.5	0.55	V
Reverse current	I _R	VR=40V, Pulse measurement, per diode			1.5	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		415		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2.2	°C/W

* : See the original Specifications

CHARACTERISTIC DIAGRAMS



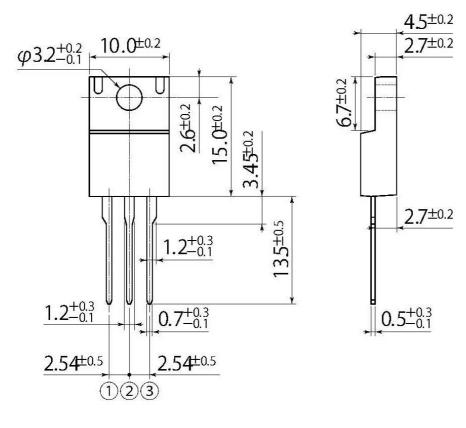




unit:mm

scale: 2/1

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



Notes

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