

SG20TC15M

Schottky Barrier Diodes  
150V, 20A

Feature

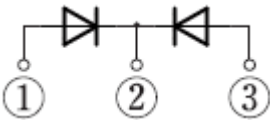
- High Voltage
- High Recovery Speed
- Tj=175°C
- Ultra low I<sub>R</sub>
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): FTO-220G  
Package (JEITA Code): SC-91



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 <sub>RRM</sub>		150	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=136°C	20	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	200	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

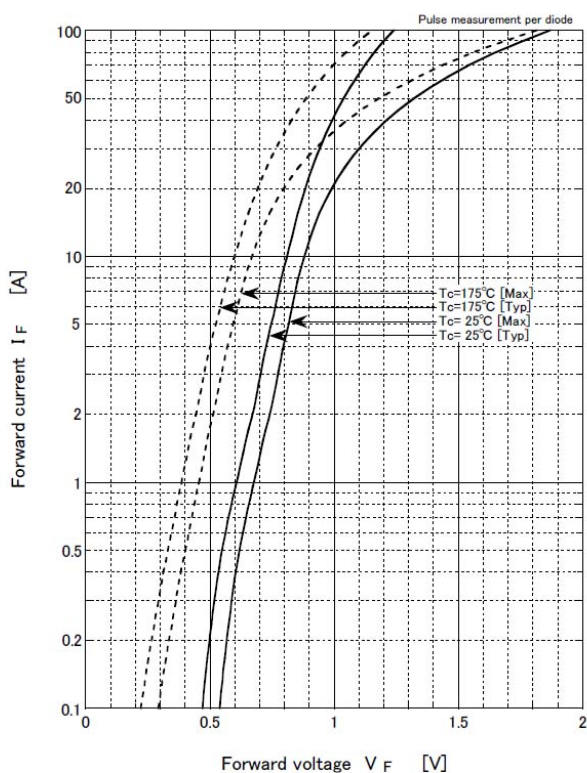
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=10A, Pulse measurement, per diode		0.81	0.88	V
Reverse current	$I_R$	VR=150V, Pulse measurement, per diode			0.03	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		159		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2.2	°C/W

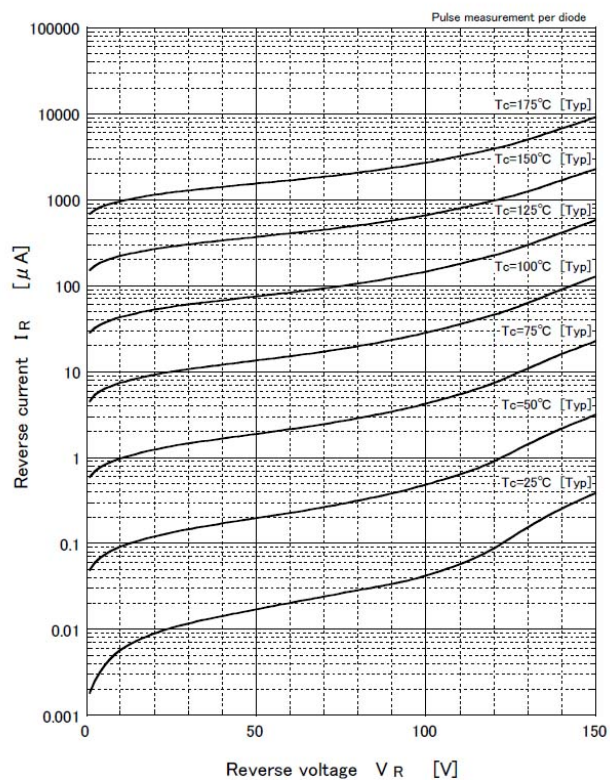
※ : See the original Specifications

## CHARACTERISTIC DIAGRAMS

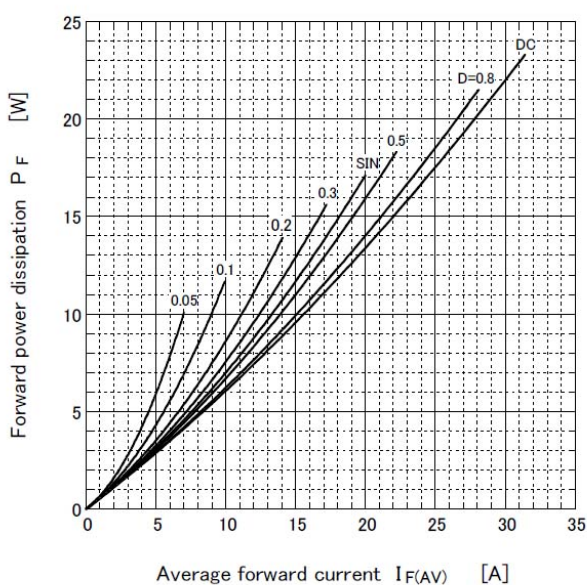
Forward voltage



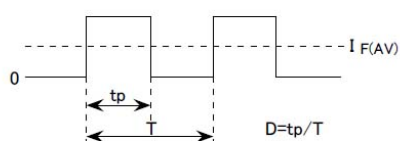
Reverse current



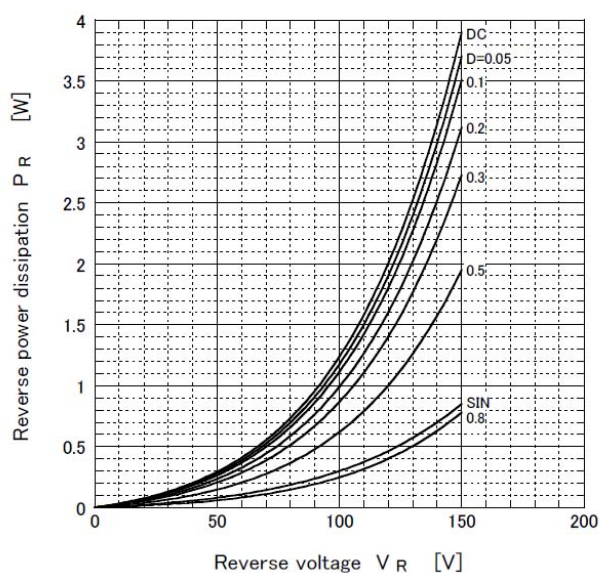
Forward power dissipation



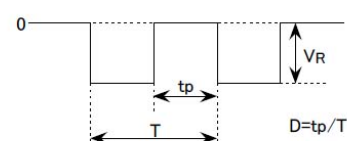
●  $T_J=175^\circ\text{C}$

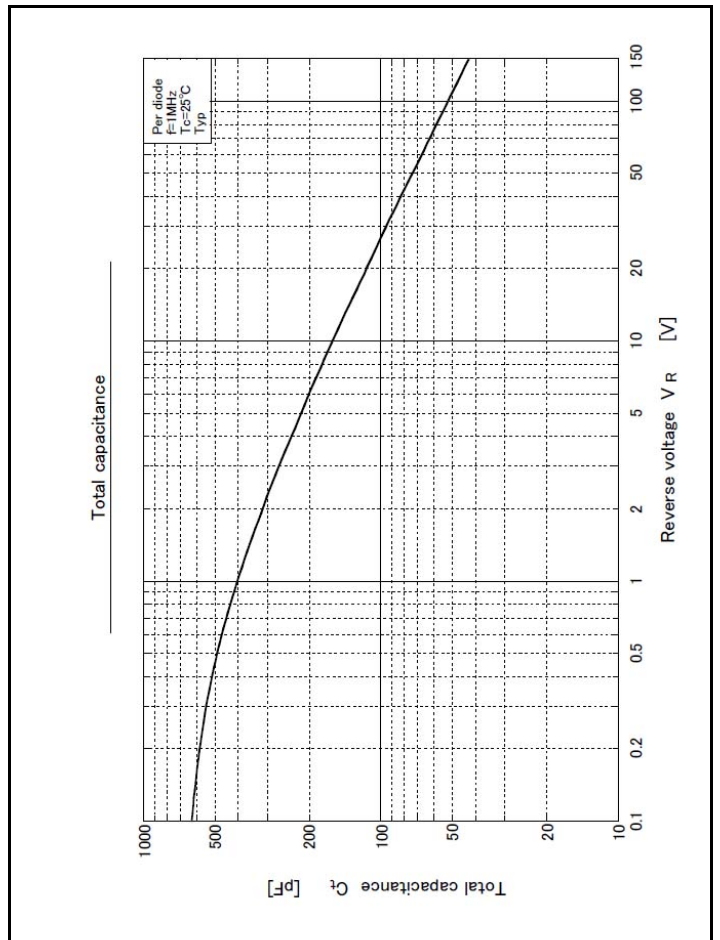
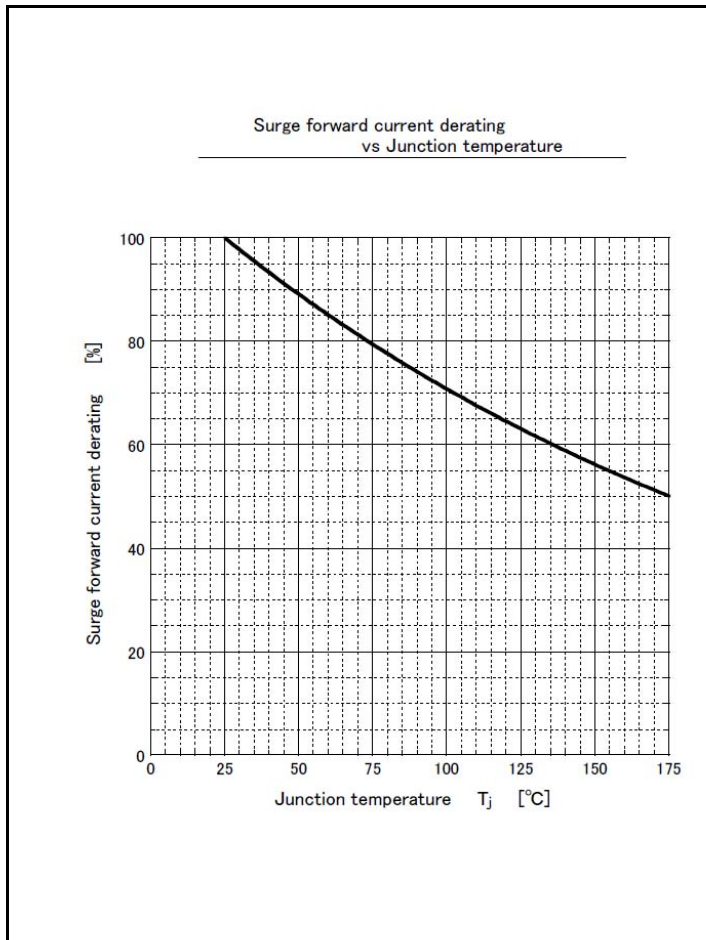
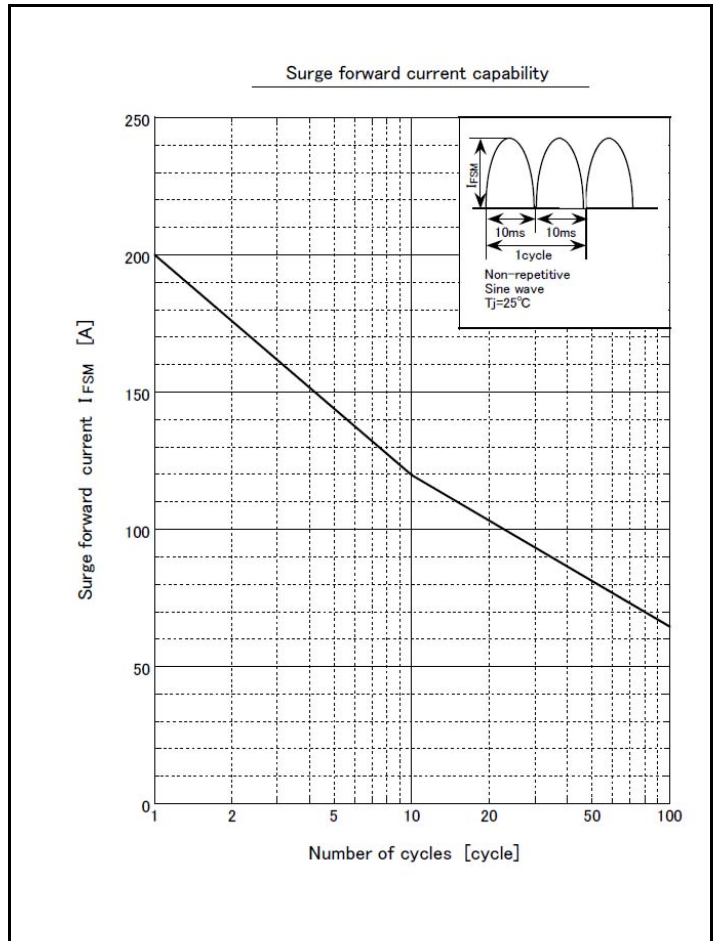
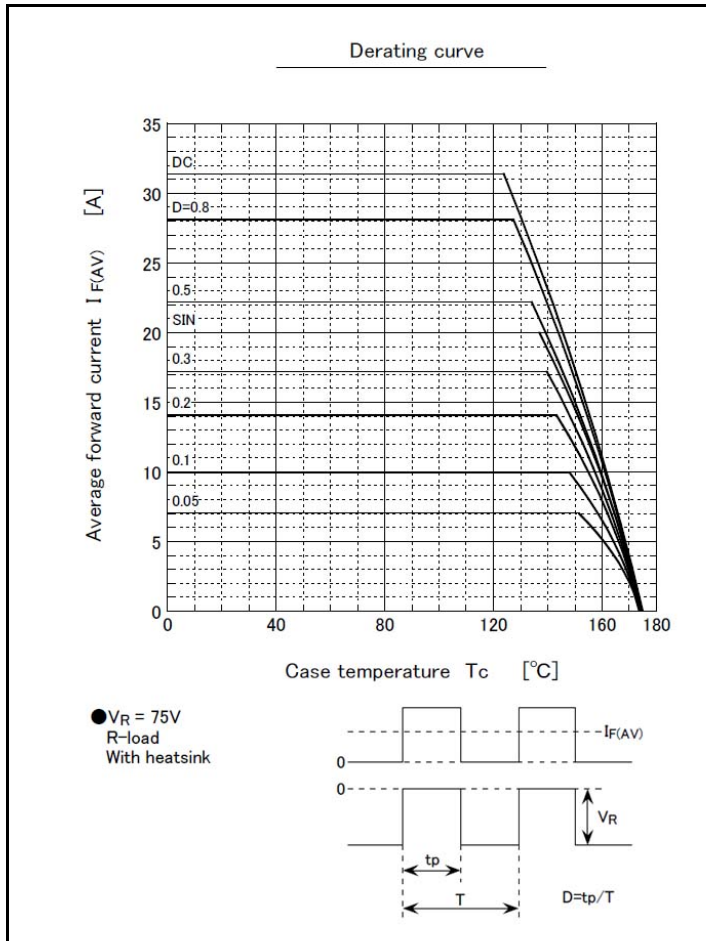


Reverse power dissipation

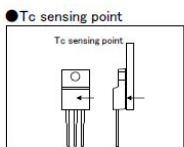
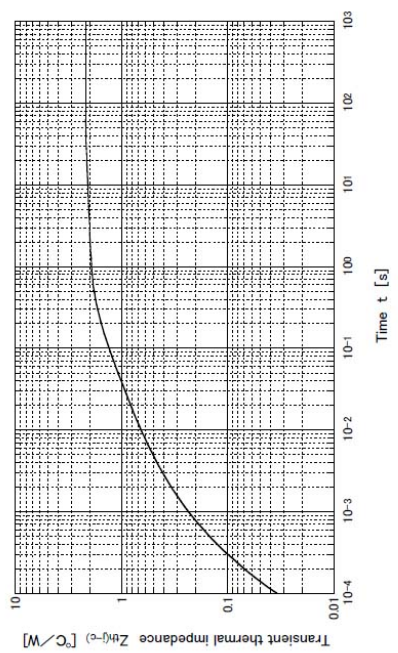


●  $T_J=175^\circ\text{C}$



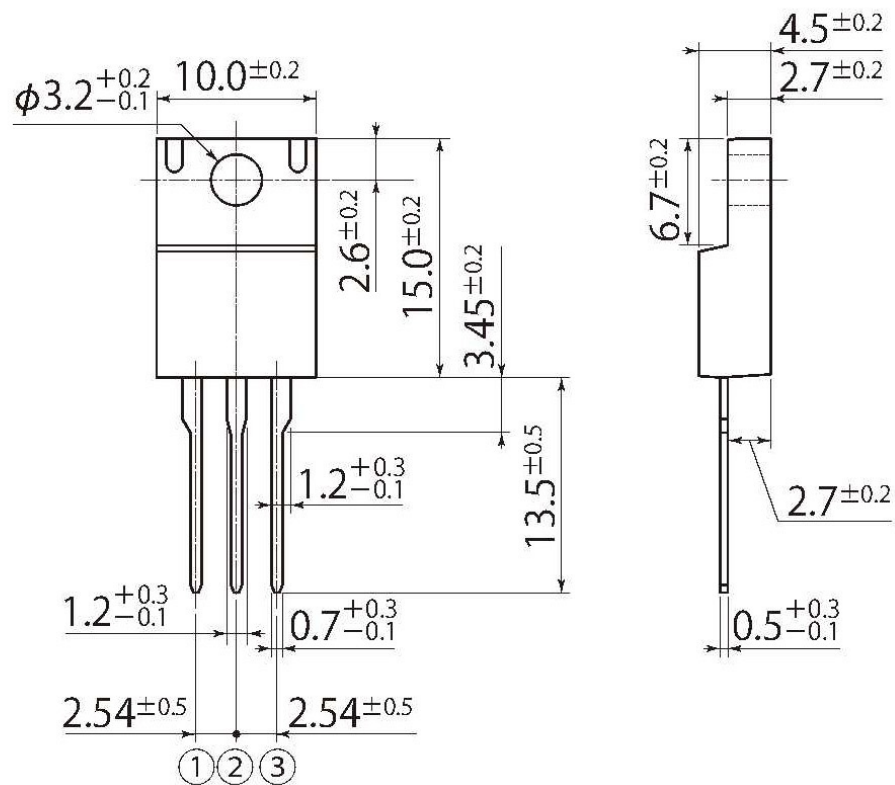


Transient thermal impedance



J9

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



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