

SG20TC10M

Schottky Barrier Diodes
100V, 20A

Feature

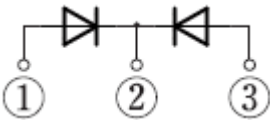
- High Recovery Speed
- Tj=175°C
- Ultra low I_R
- Pb free terminal
- RoHS:Yes

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 _{RRM}		100	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=140°C	20	A
Surge forward current	I _{FSM}	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

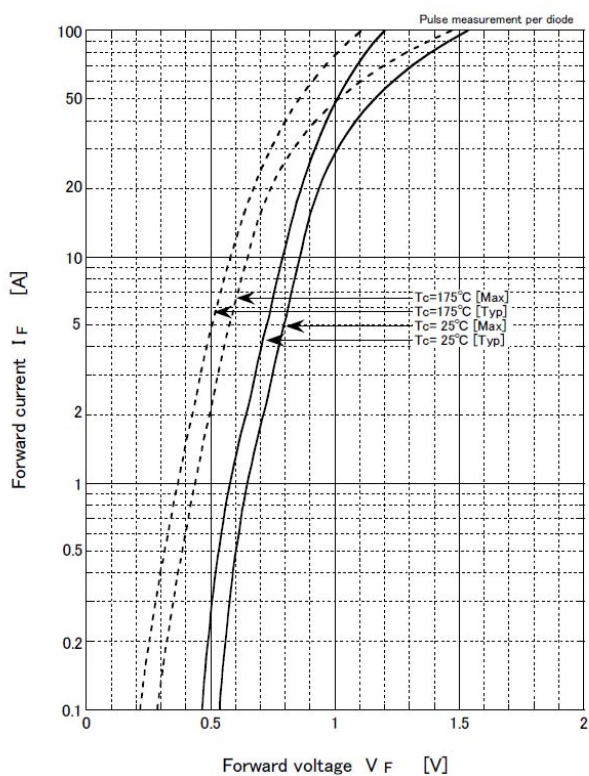
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =10A, Pulse measurement, per diode		0.79	0.86	V
Reverse current	I _R	V _R =100V, Pulse measurement, per diode			0.03	mA
Total capacitance	C _t	f=1MHz, V _R =10V, per diode		185		pF
Thermal resistance	R _{th(j-c)}	Junction to case, With heatsink			2.2	°C/W

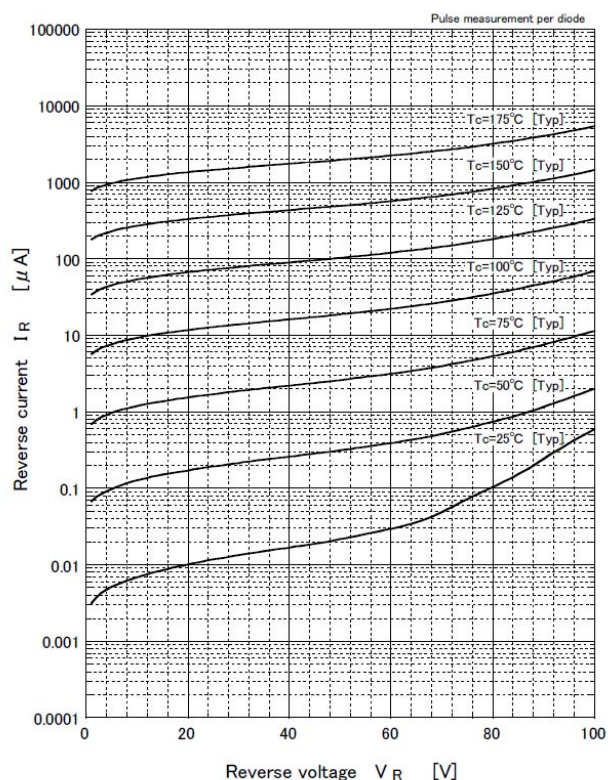
※ : See the original Specifications

CHARACTERISTIC DIAGRAMS

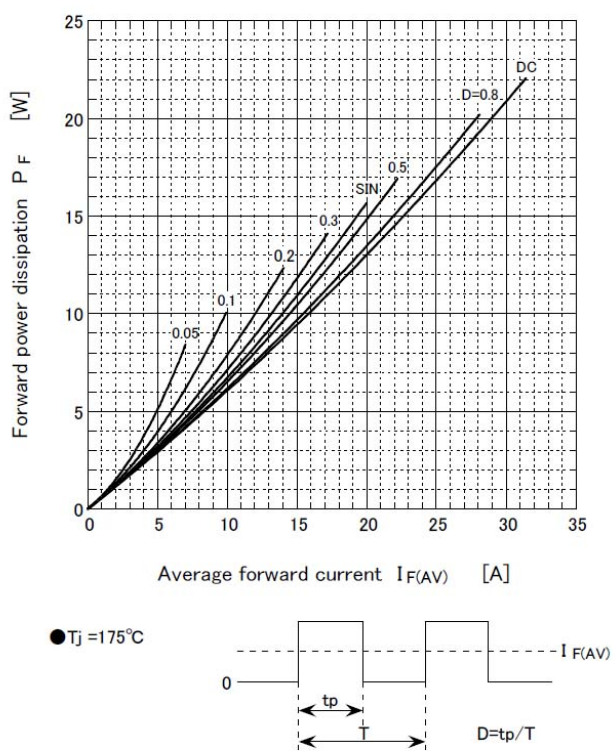
Forward voltage



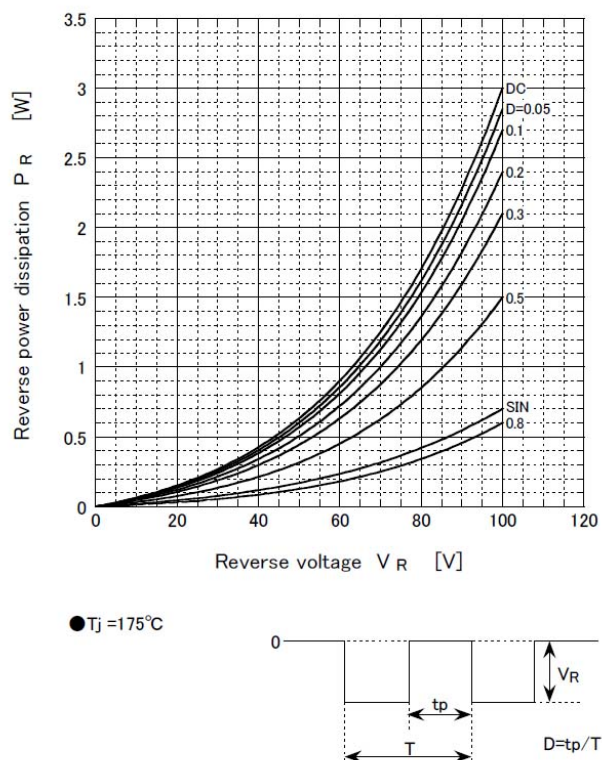
Reverse current



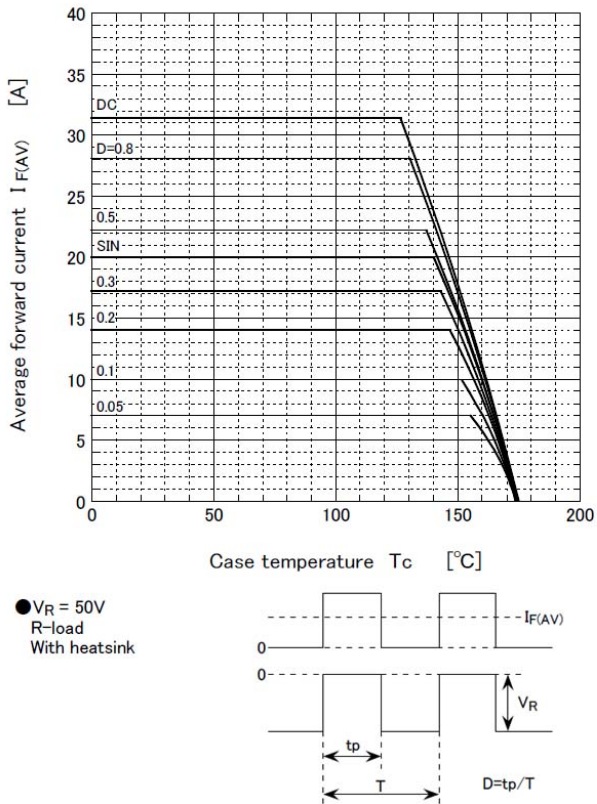
Forward power dissipation



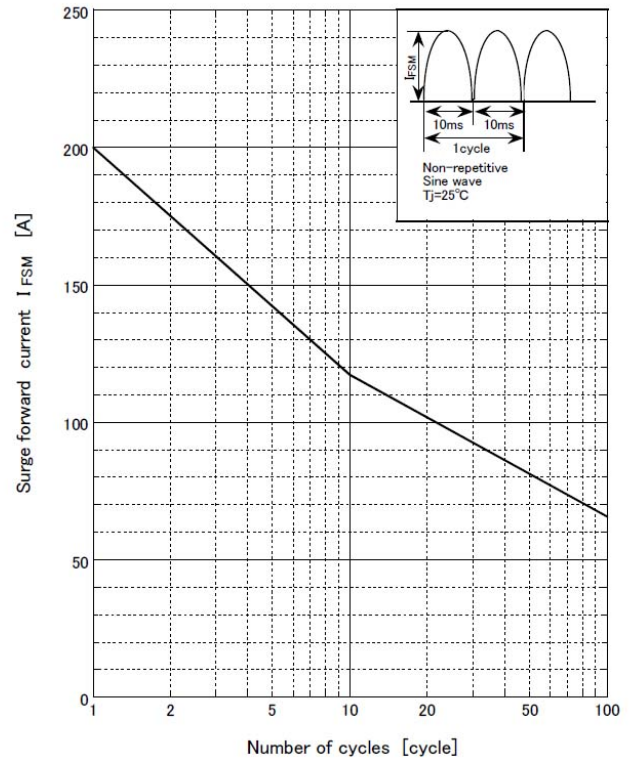
Reverse power dissipation



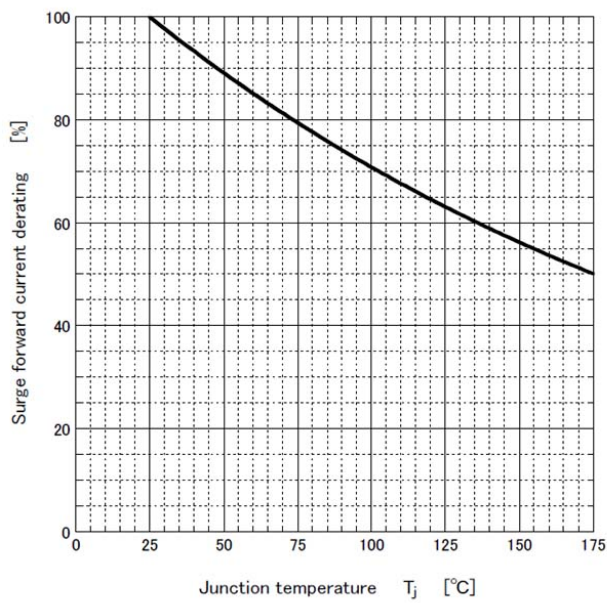
Derating curve



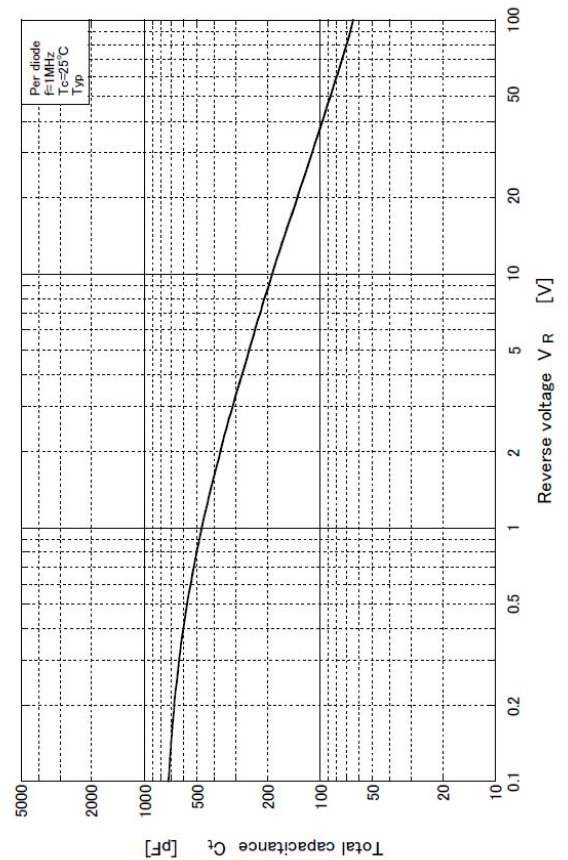
Surge forward current capability



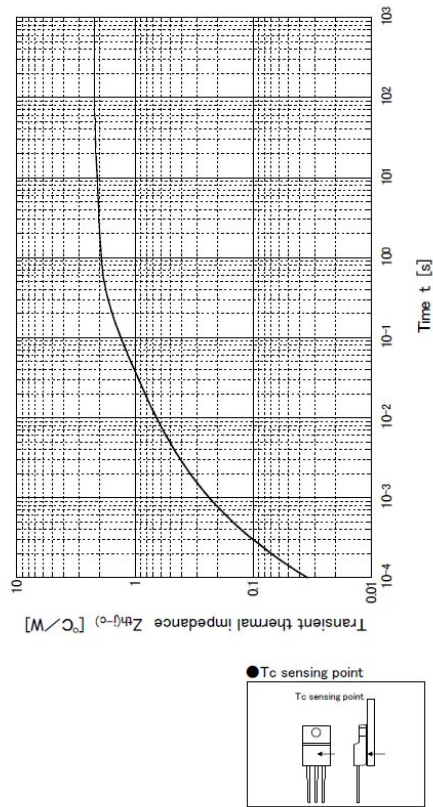
Surge forward current derating vs Junction temperature



Total capacitance

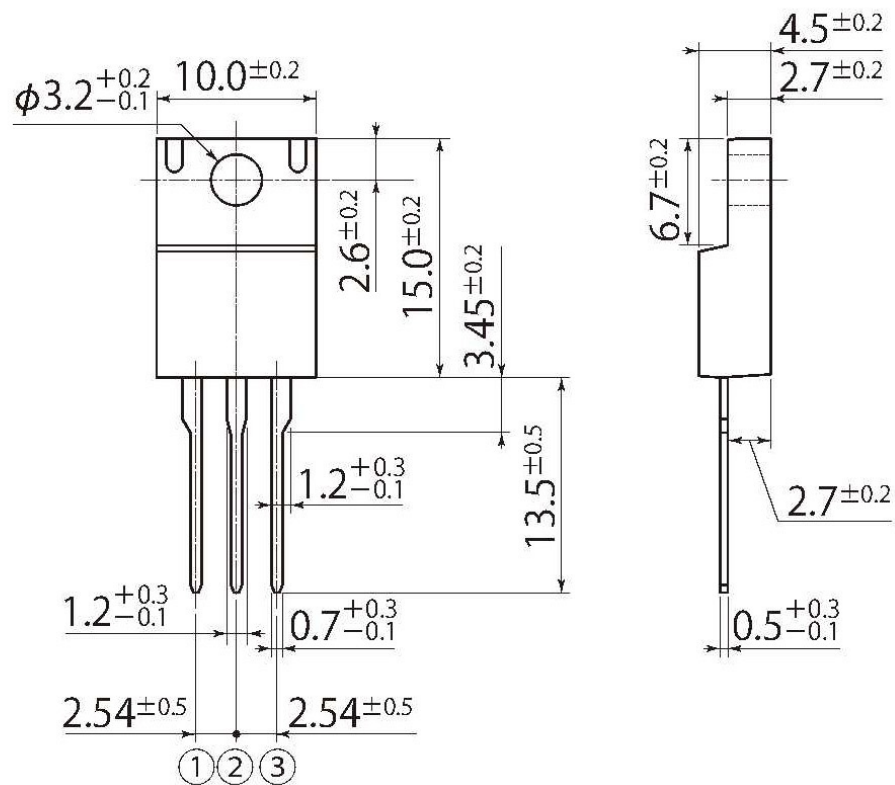


Transient thermal impedance



J9

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



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