

SG20JC6M

Schottky Barrier Diodes
60V, 20A

Feature

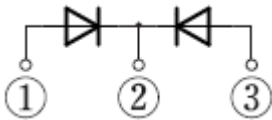
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

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 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	VRRM		60	V
Repetitive peak surge reverse voltage	VRRSM	Pulse width 0.5ms, duty=1/40	65	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=106°C	20	A
Surge forward current	IFSM	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

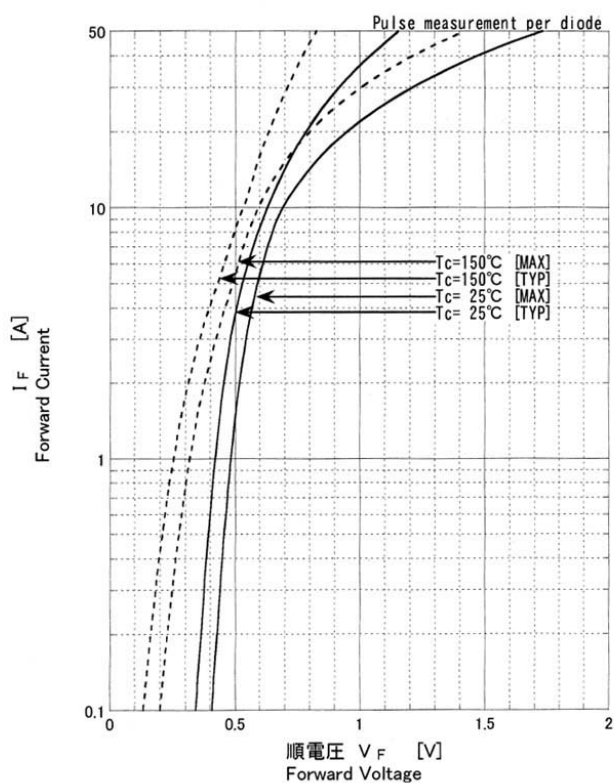
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =10A, Pulse measurement, per diode		0.63	0.69	V
Reverse current	I _R	V _R =60V, Pulse measurement, per diode			0.1	mA
Total capacitance	C _t	f=1MHz, V _R =10V, per diode		250		pF
Thermal resistance	R _{th(j-c)}	Junction to case			2.4	°C/W

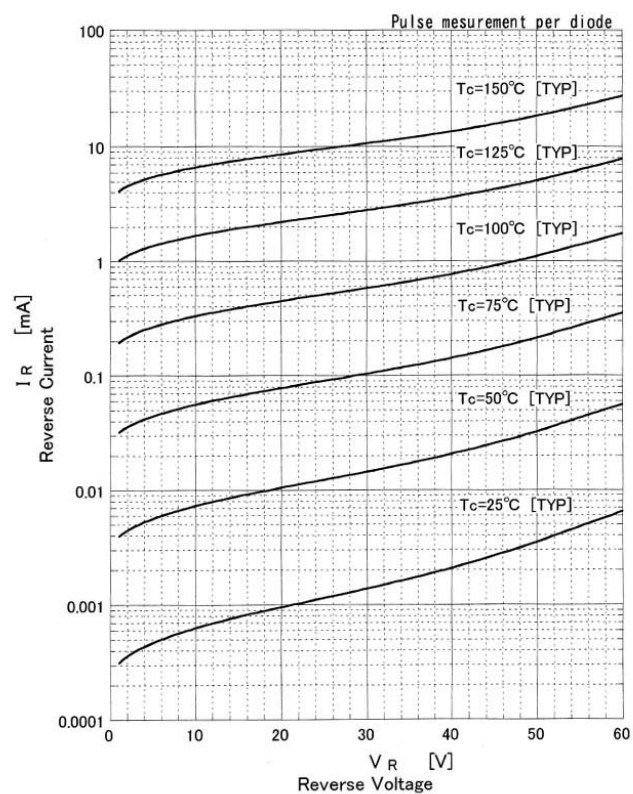
※ : See the original Specifications

CHARACTERISTIC DIAGRAMS

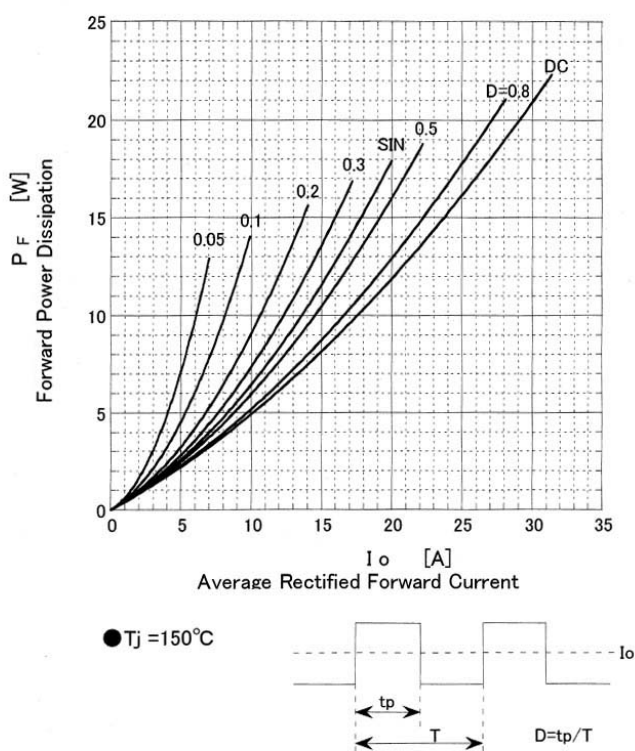
SG20JC6M Forward Voltage



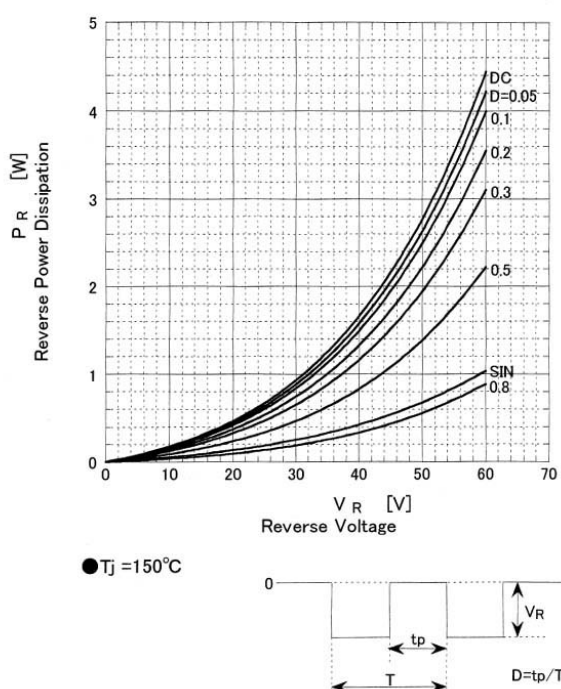
SG20JC6M Reverse Current



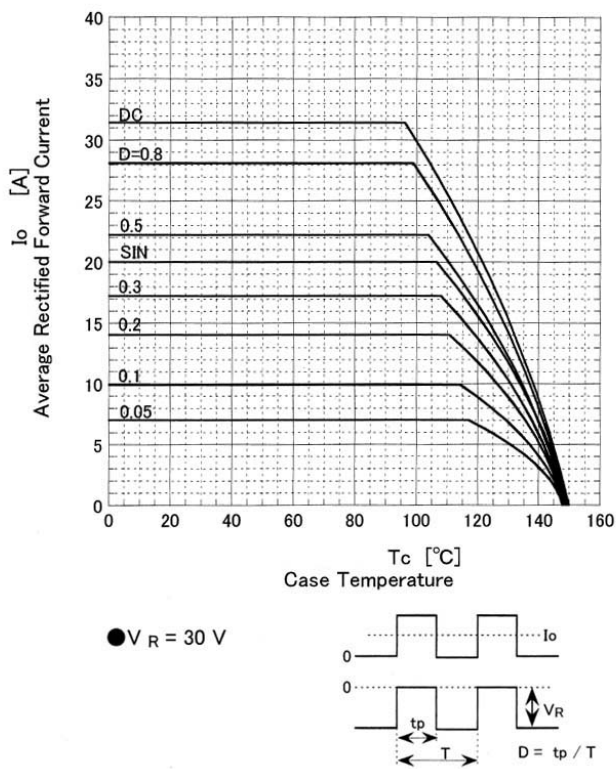
SG20JC6M Forward Power Dissipation



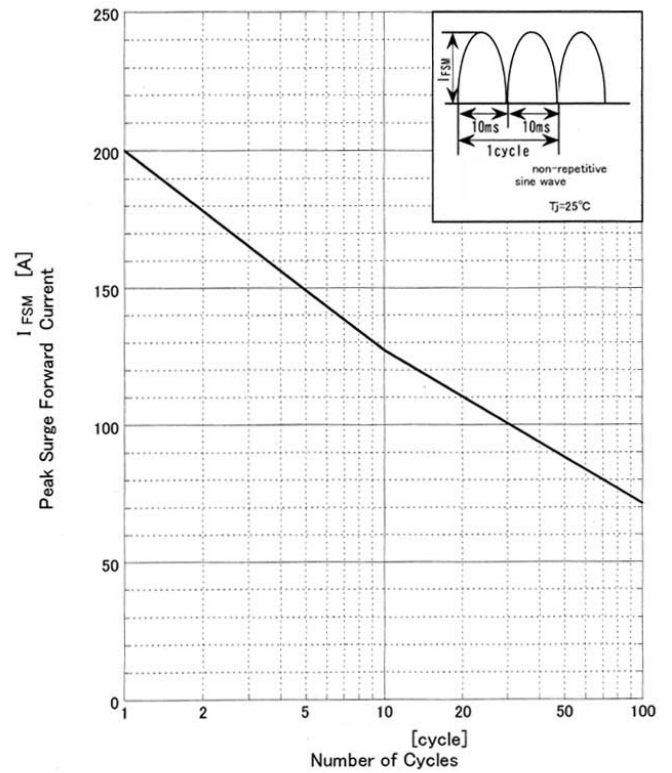
SG20JC6M Reverse Power Dissipation



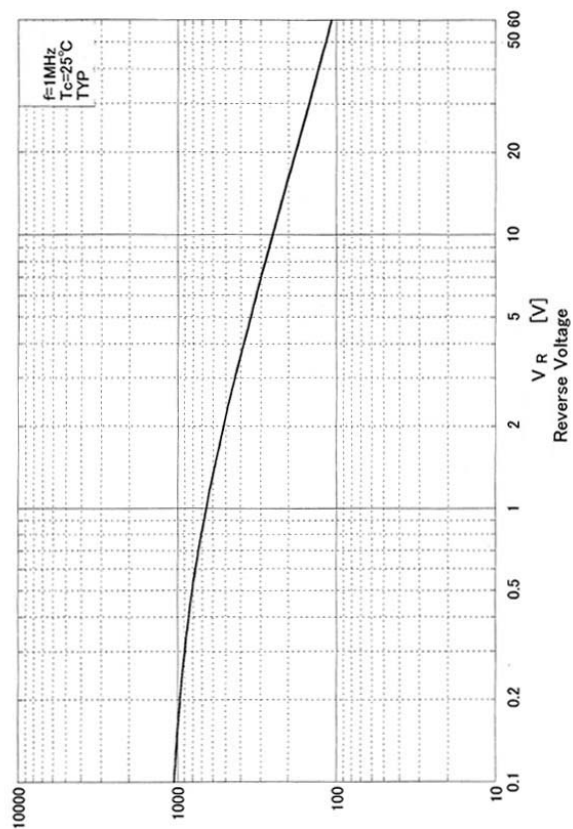
SG20JC6M Derating Curve



SG20JC6M Peak Surge Forward Capability

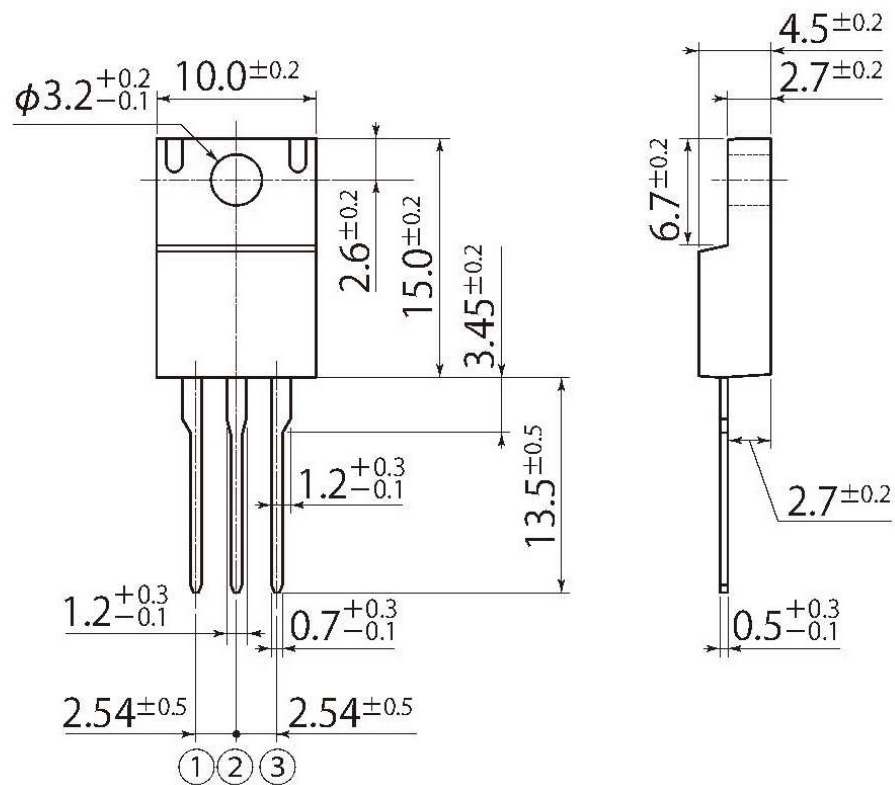


SG20JC6M Junction Capacitance



J9

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



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