

SG20LC20USM

Fast Recovery Diodes 200V, 20A

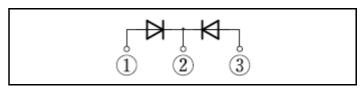
Feature

- 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
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		200	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=95°C	20	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	150	Α
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

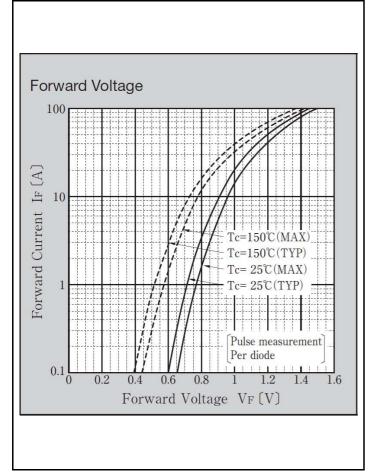
^{* :} See the original Specifications

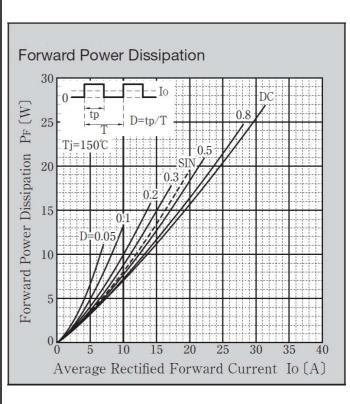
Electrical Characteristics (unless otherwise specified : Tc=25°C)

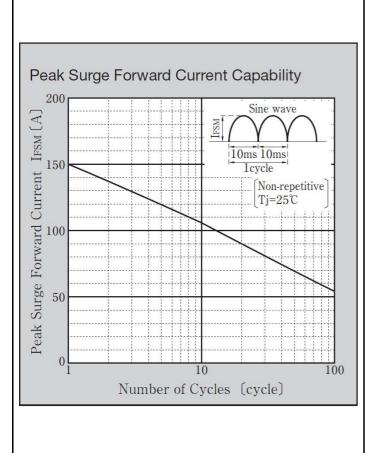
ltem	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oilit
Forward voltage	V _F	IF=10A, Pulse measurement, Per diode			0.96	V
Reverse current	I _R	VR=200V, Pulse measurement, Per diode			10	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR, Per Diode			25	ns
Total capacitance	Ct	f=1MHz, VR=10V, Per diode		80		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2.8	°C/W

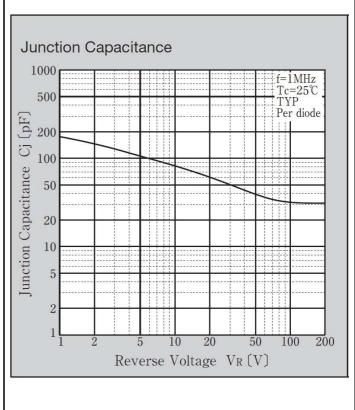
 $[\]ensuremath{\mbox{\ensuremath{\$}}}$:See the original Specifications

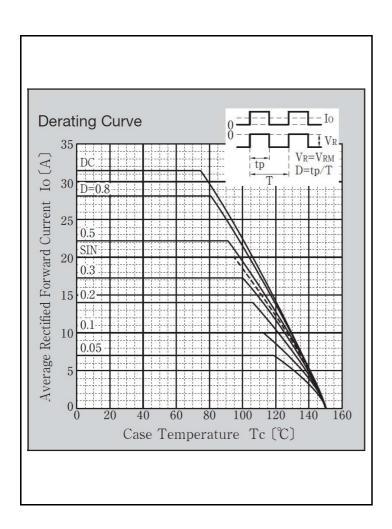
CHARACTERISTIC DIAGRAMS





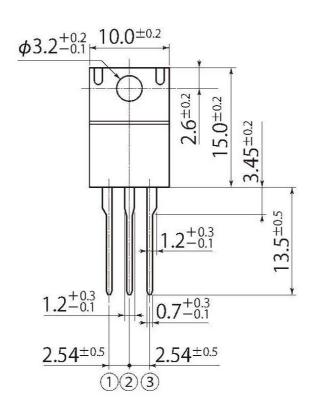


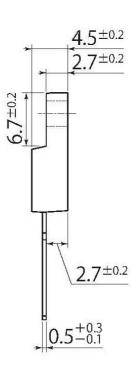




J9

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





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