

SG10LC20USM

Fast Recovery Diodes
200V, 10A

Feature

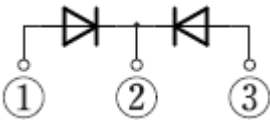
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

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		-55 to 150	°C
Repetitive peak reverse voltage	VRRM		200	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=122°C	10	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	90	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

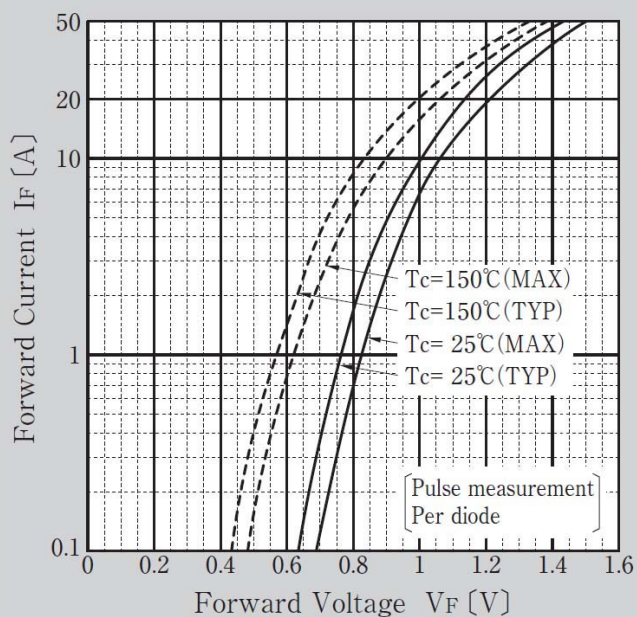
※ :See the original Specifications

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

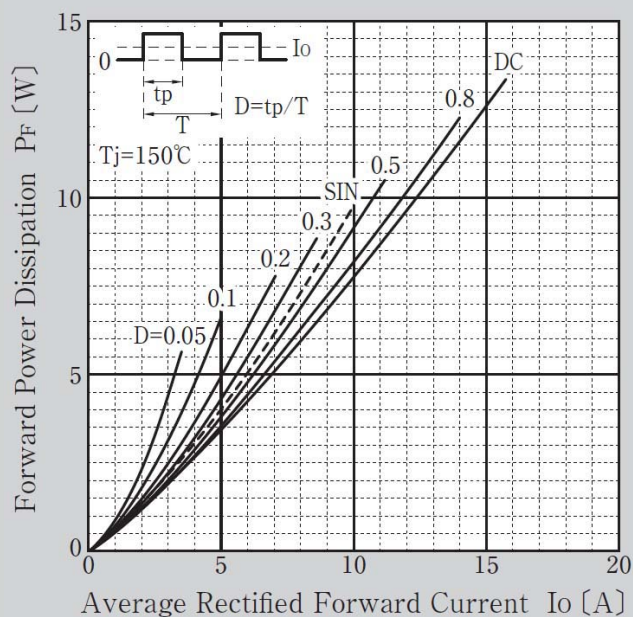
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=5A, Pulse measurement, Per diode			0.96	V
Reverse current	I_R	VR=200V, Pulse measurement, Per diode			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR, Per Diode			25	ns
Total capacitance	Ct	f=1MHz, VR=10V, Per diode		40		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2.8	°C/W

※ :See the original Specifications

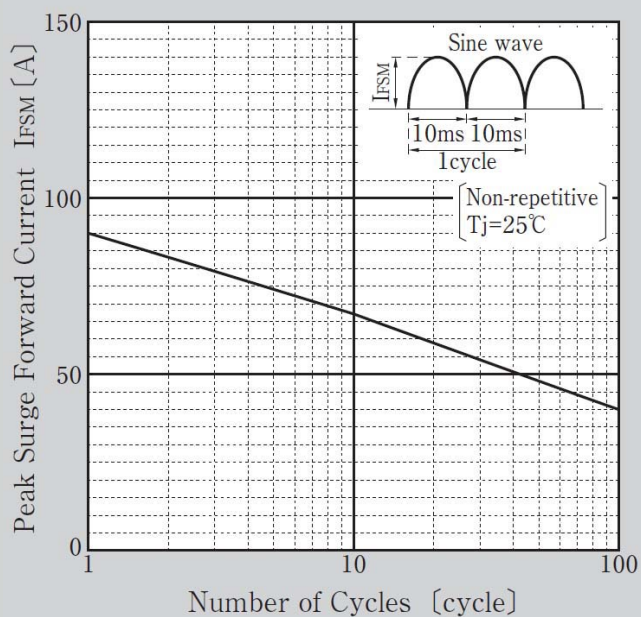
Forward Voltage



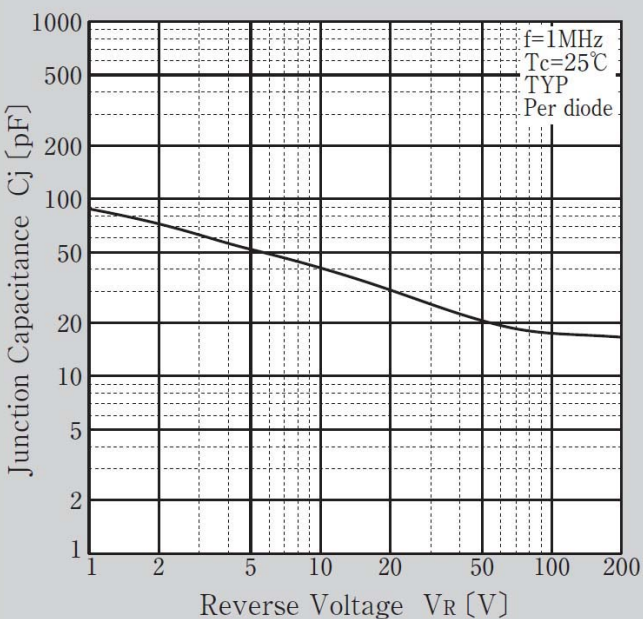
Forward Power Dissipation

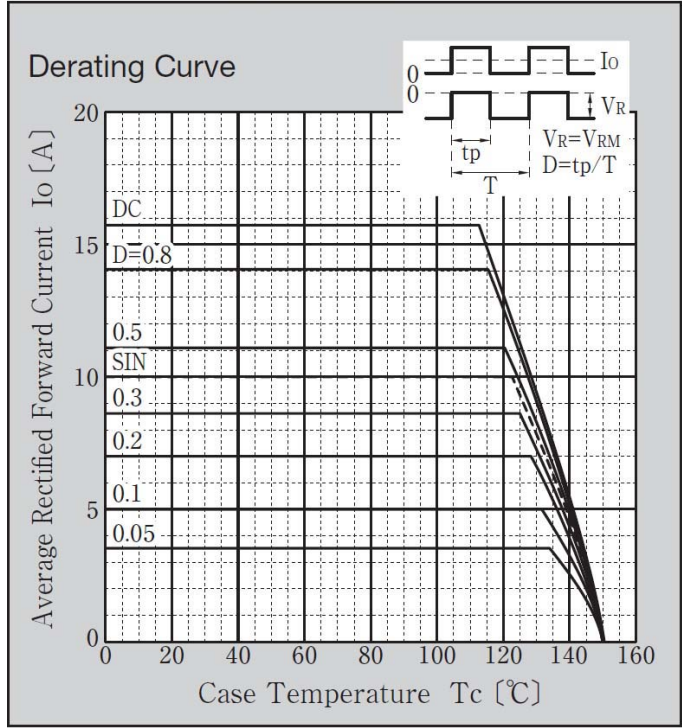


Peak Surge Forward Current Capability



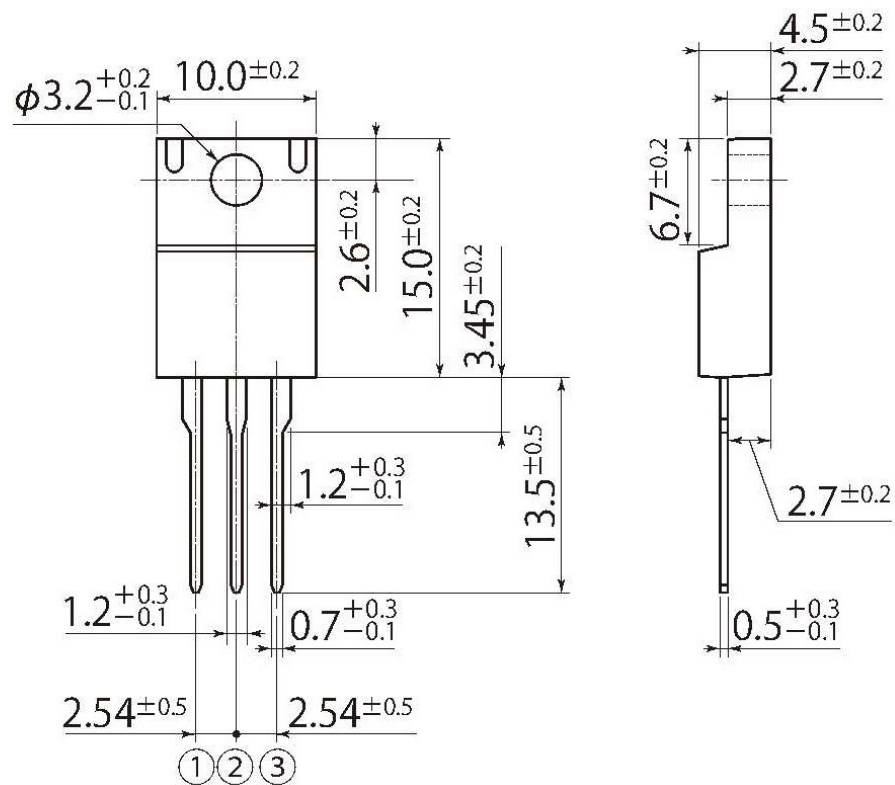
Junction Capacitance





J9

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



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