

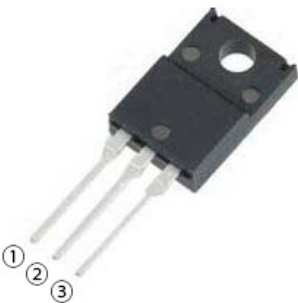
SG30TC12M
Schottky Barrier Diodes
120V, 30A

Feature

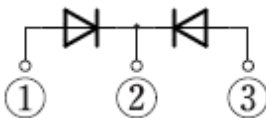
- High Recovery Speed
- Tj=175°C
- Ultra low I_R
- Pb free terminal
- RoHS:Yes

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		175	°C
Repetitive peak reverse voltage	V _{RRM}		120	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=122°C	30	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	300	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

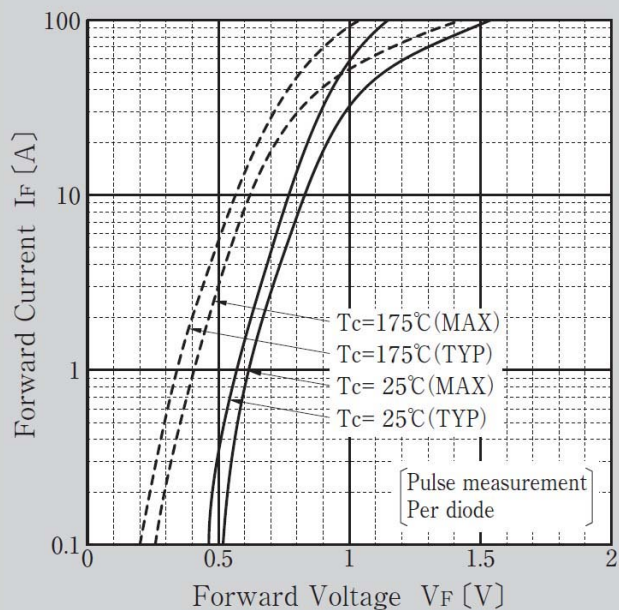
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=15A, Pulse measurement, per diode		0.81	0.87	V
Reverse current	I _R	VR=120V, Pulse measurement, per diode			0.04	mA
Total capacitance	C _t	f=1MHz, VR=10V, per diode		228		pF
Thermal resistance	R _{th(j-c)}	Junction to case			2	°C/W

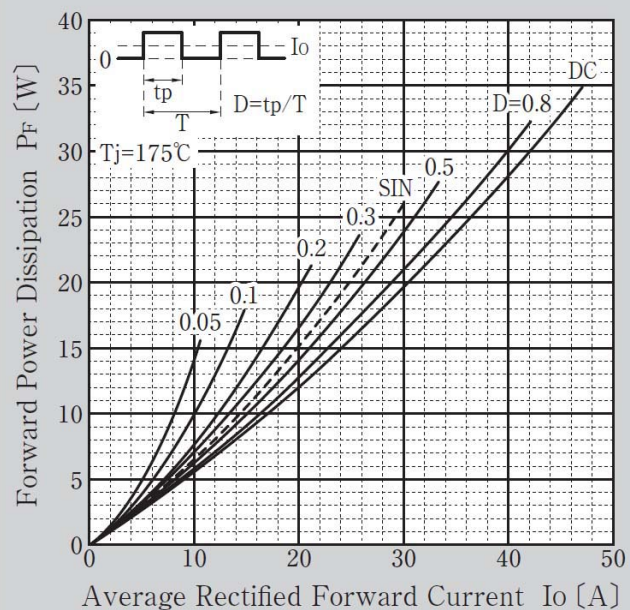
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

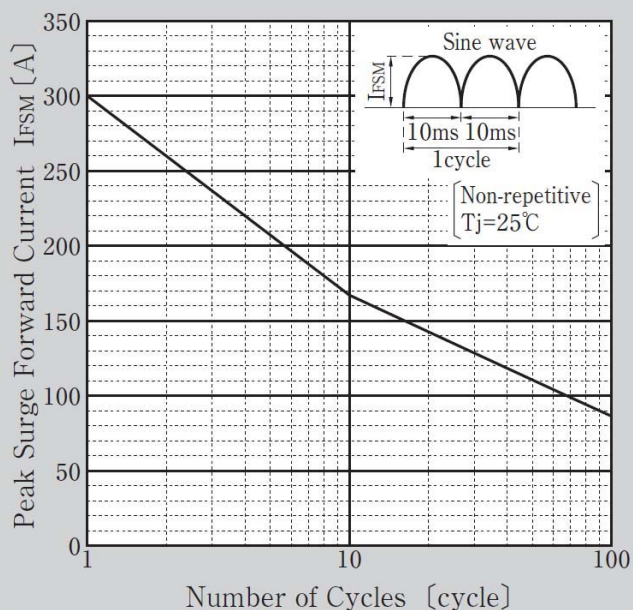
Forward Voltage



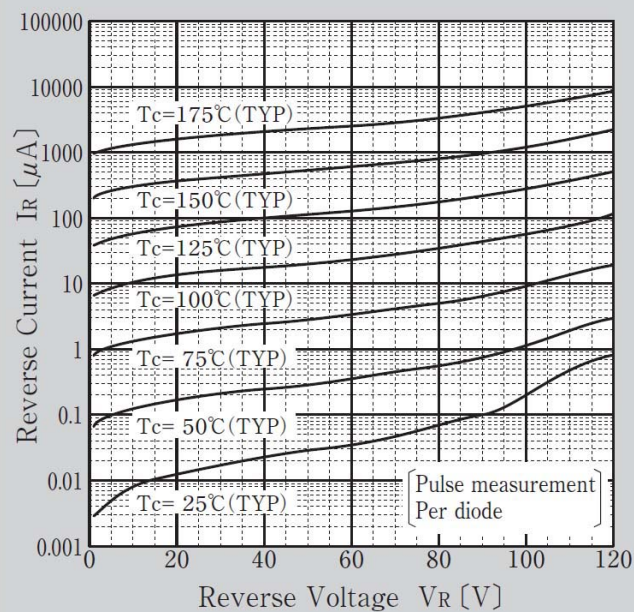
Forward Power Dissipation



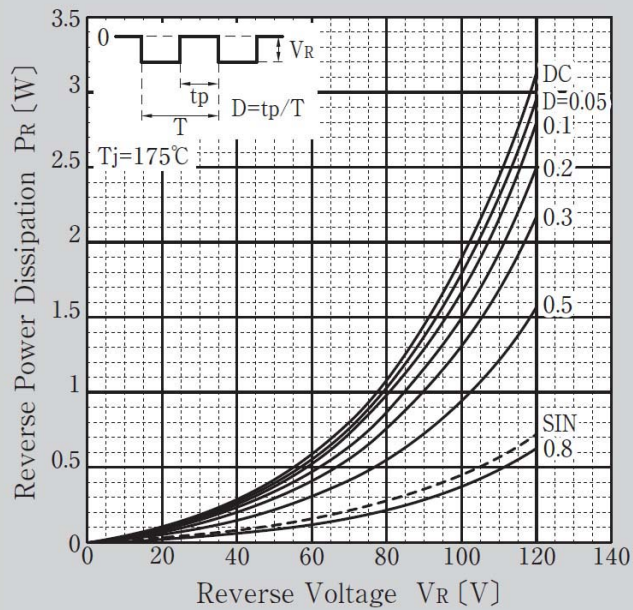
Peak Surge Forward Current Capability



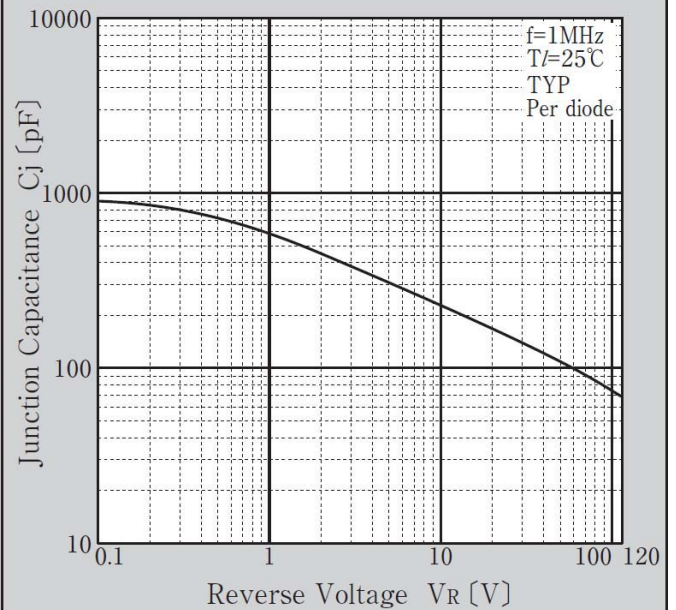
Reverse Current



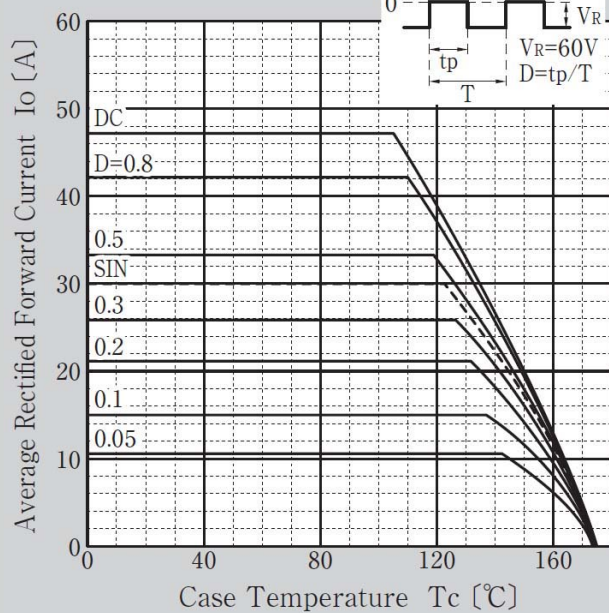
Reverse Power Dissipation



Junction Capacitance

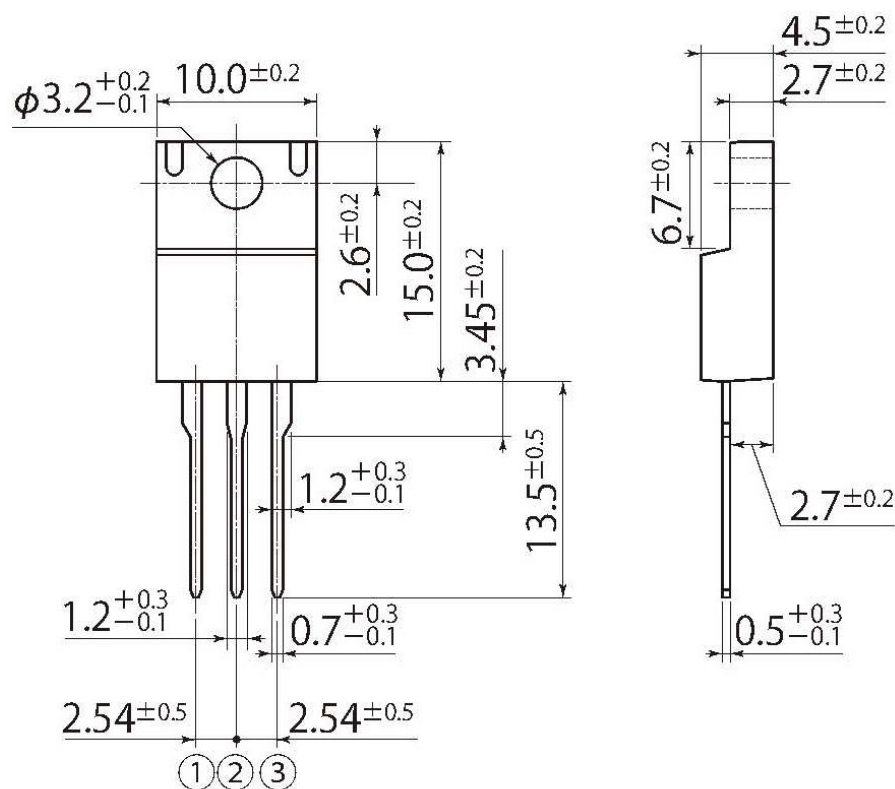


Derating Curve T_c - I_o



J9

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



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