

SG10SC9M

Schottky Barrier Diodes

90V, 10A

Feature

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

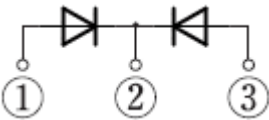
OUTLINE

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	VRRM		90	V
Repetitive peak surge reverse voltage	VRRSM	Pulse width 0.5ms, duty=1/40	100	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=139°C	10	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	150	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

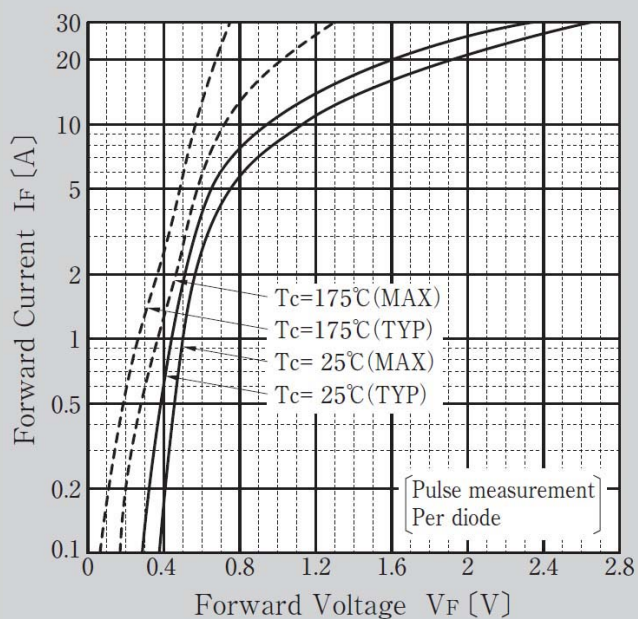
※ :See the original Specifications

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

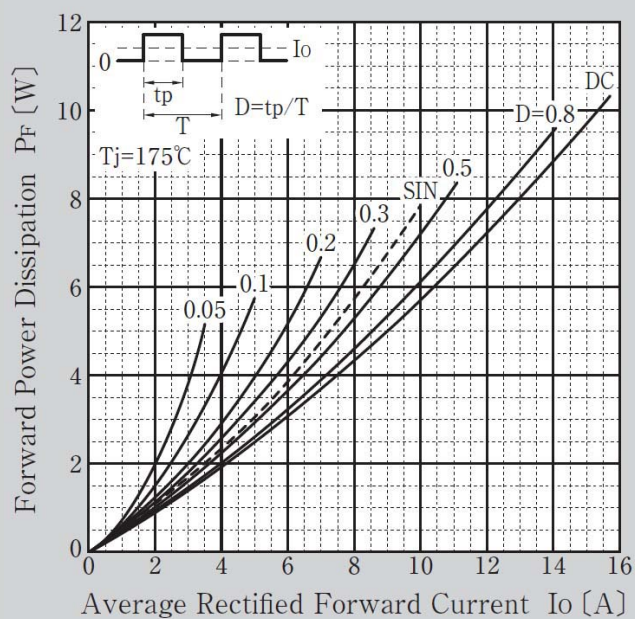
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=5A$, Pulse measurement, per diode		0.65	0.75	V
Reverse current	I_R	$V_R=90V$, Pulse measurement, per diode			0.5	mA
Total capacitance	C_t	$f=1MHz$, $V_R=10V$, per diode		140		pF
Thermal resistance	$R_{th(j-c)}$	Junction to case, With heatsink			3	°C/W

※ : See the original Specifications

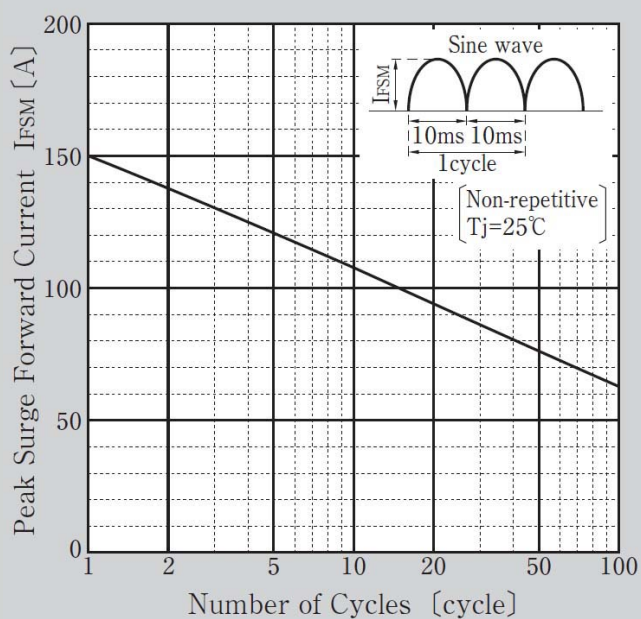
Forward Voltage



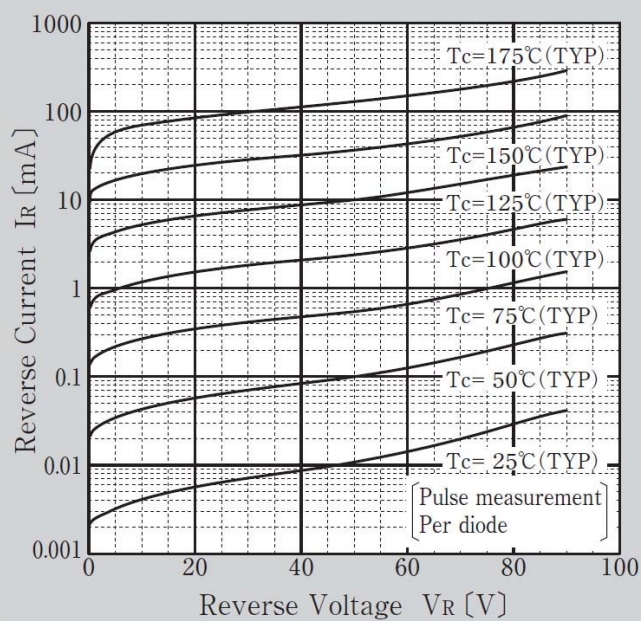
Forward Power Dissipation



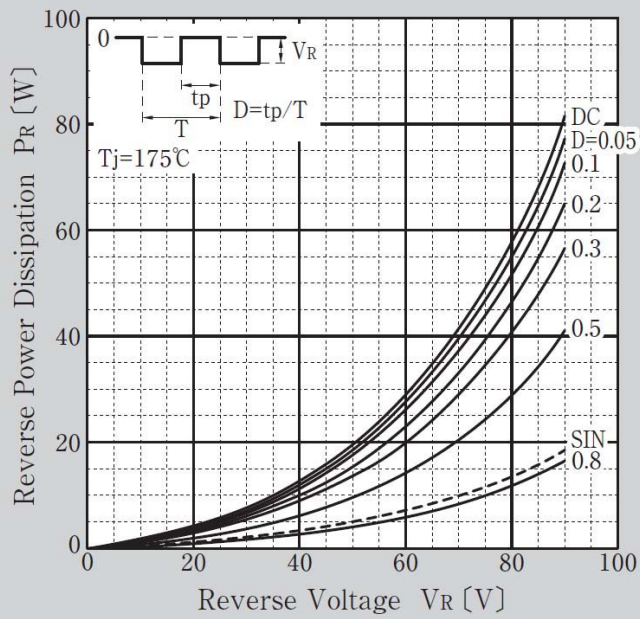
Peak Surge Forward Current Capability



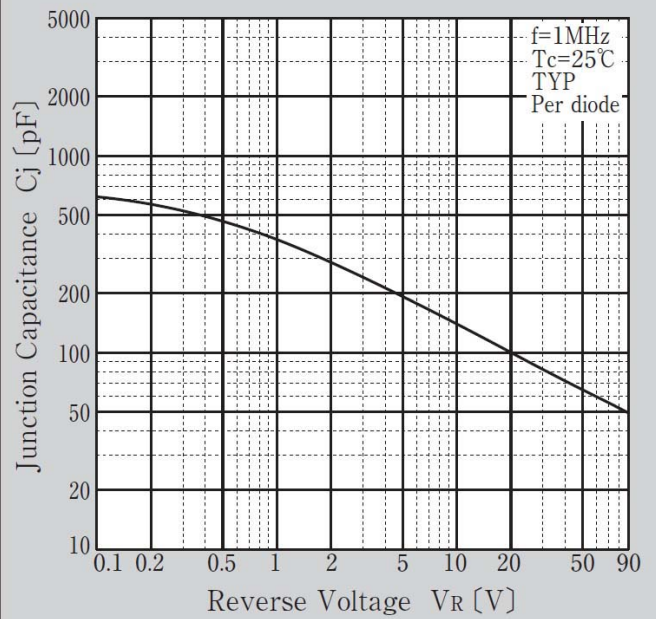
Reverse Current



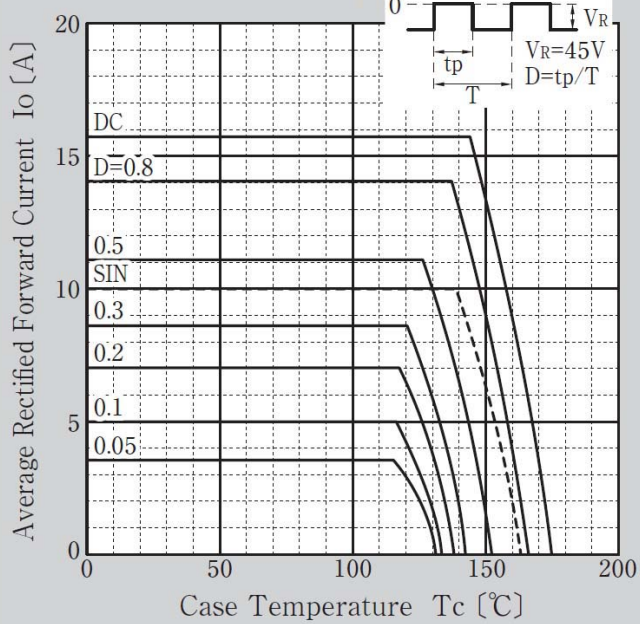
Reverse Power Dissipation



Junction Capacitance

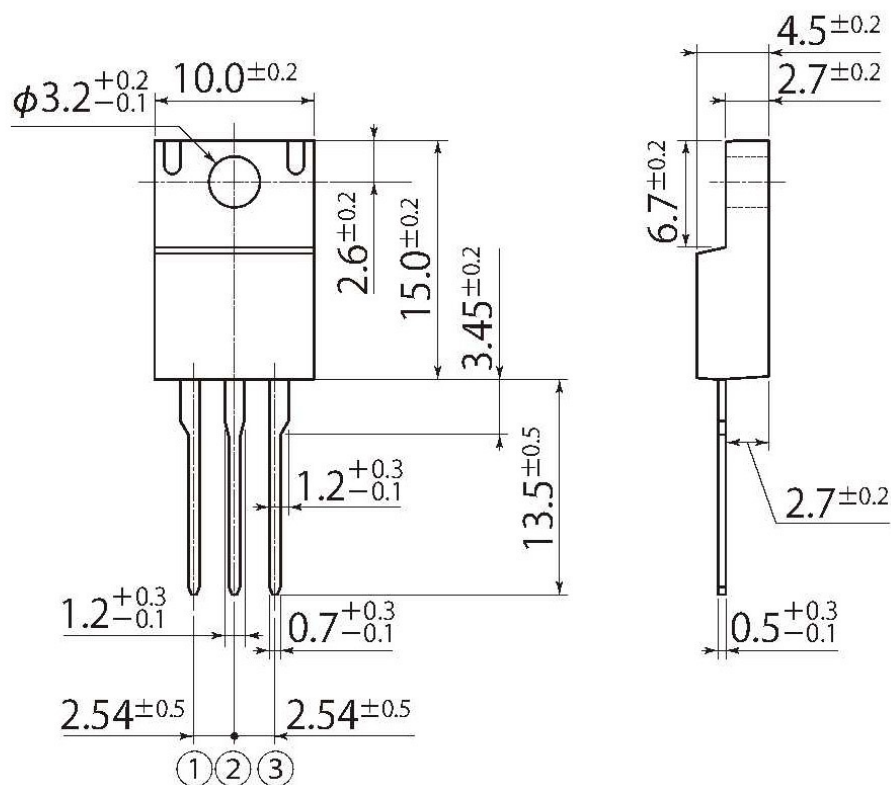


Derating Curve



J9

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



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