

SG15SC4M
Schottky Barrier Diodes
40V, 15A

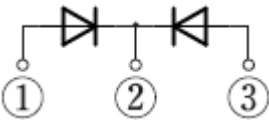
- Feature
- High Recovery Speed
 - Low V_F
 - Pb free terminal
 - RoHS:Yes

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		40	V
Repetitive peak surge reverse voltage	VRRSM	Pulse width 0.5ms, duty=1/40	45	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=117°C	15	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

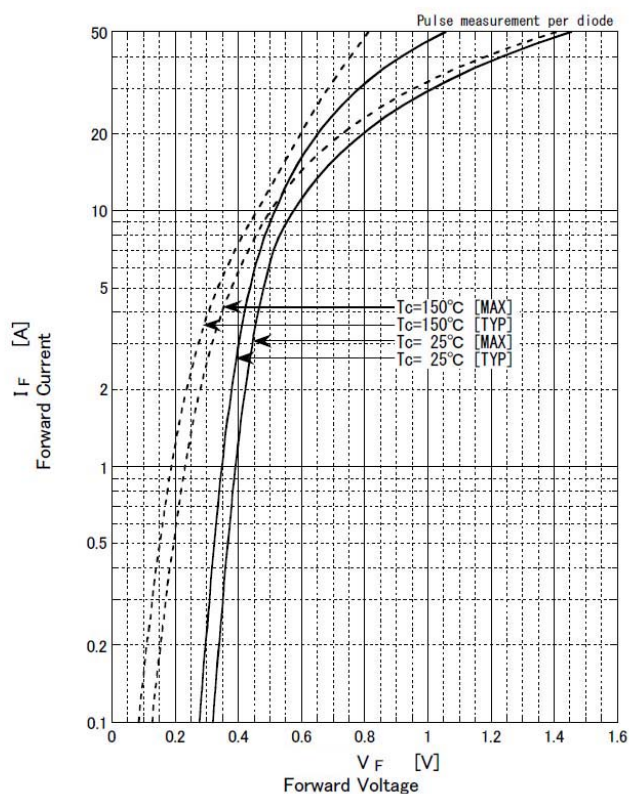
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =7.5A, Pulse measurement, per diode		0.47	0.52	V
Reverse current	I _R	V _R =40V, Pulse measurement, per diode			0.8	mA
Total capacitance	C _t	f=1MHz, V _R =10V, per diode		230		pF
Thermal resistance	R _{th(j-c)}	Junction to case			3	°C/W

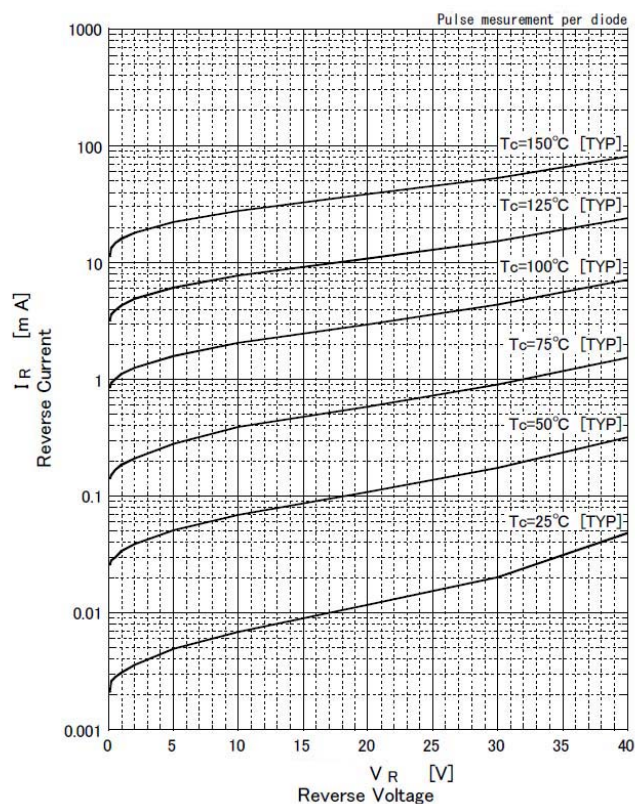
※ : See the original Specifications

CHARACTERISTIC DIAGRAMS

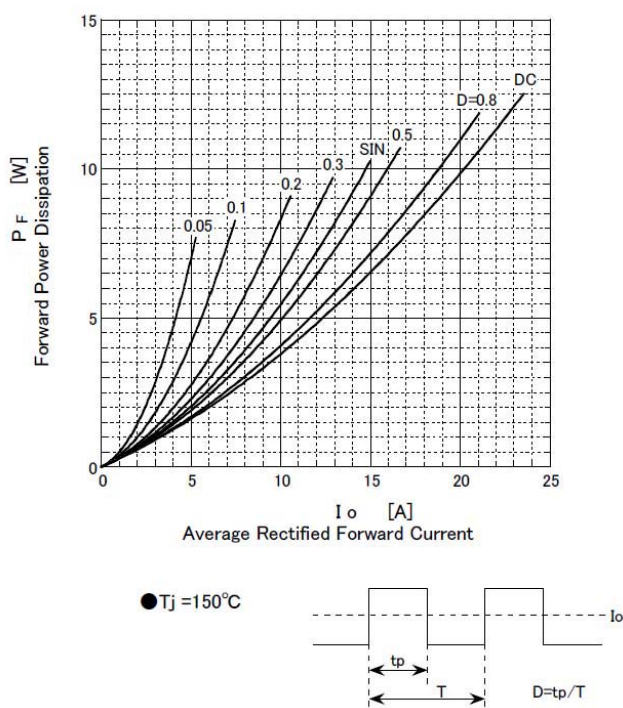
SG15SC4M Forward Voltage



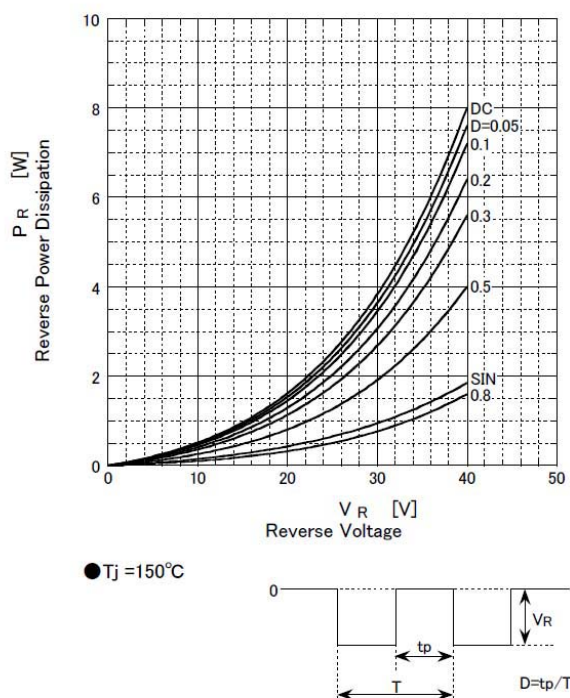
SG15SC4M Reverse Current



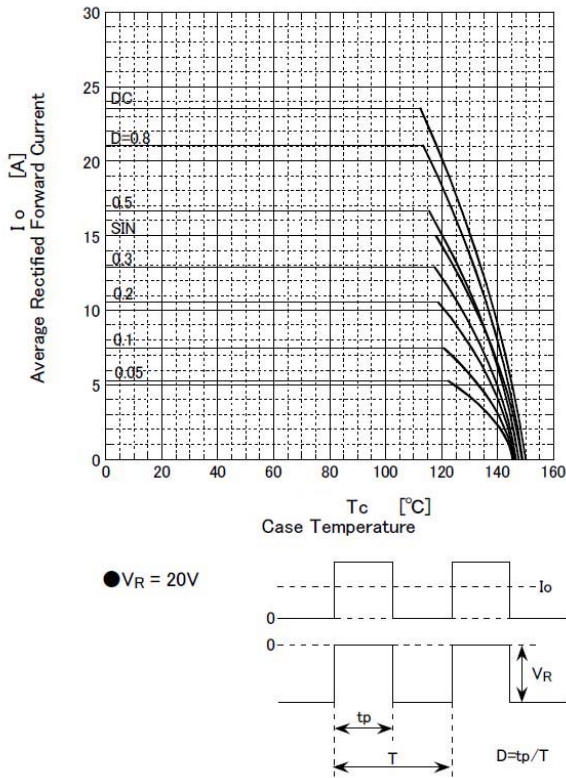
SG15SC4M Forward Power Dissipation



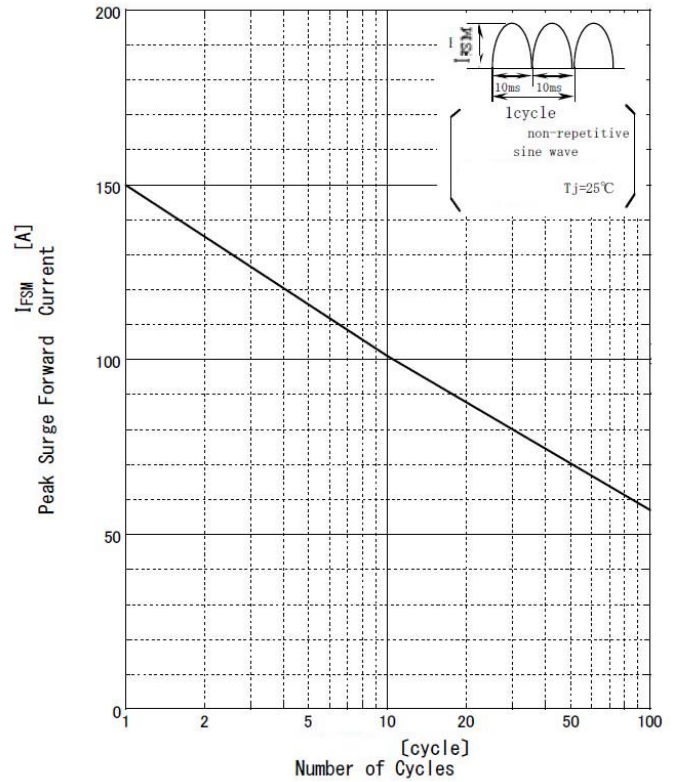
SG15SC4M Reverse Power Dissipation



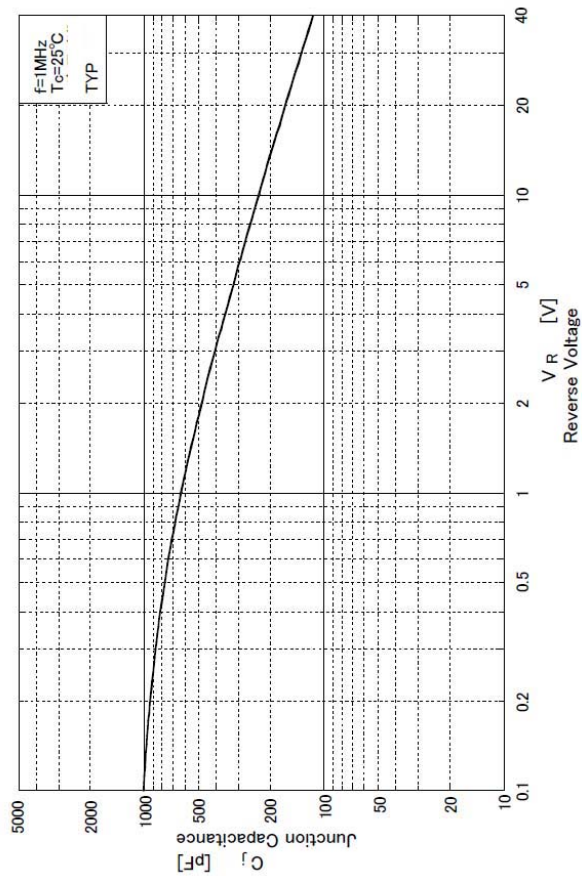
SG15SC4M Derating Curve



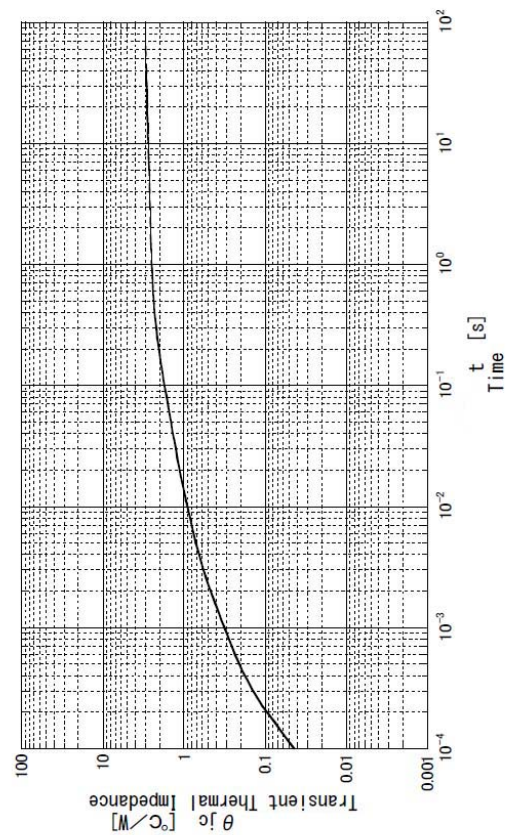
SG15SC4M Peak Surge Forward Capability



SG15SC4M Junction Capacitance

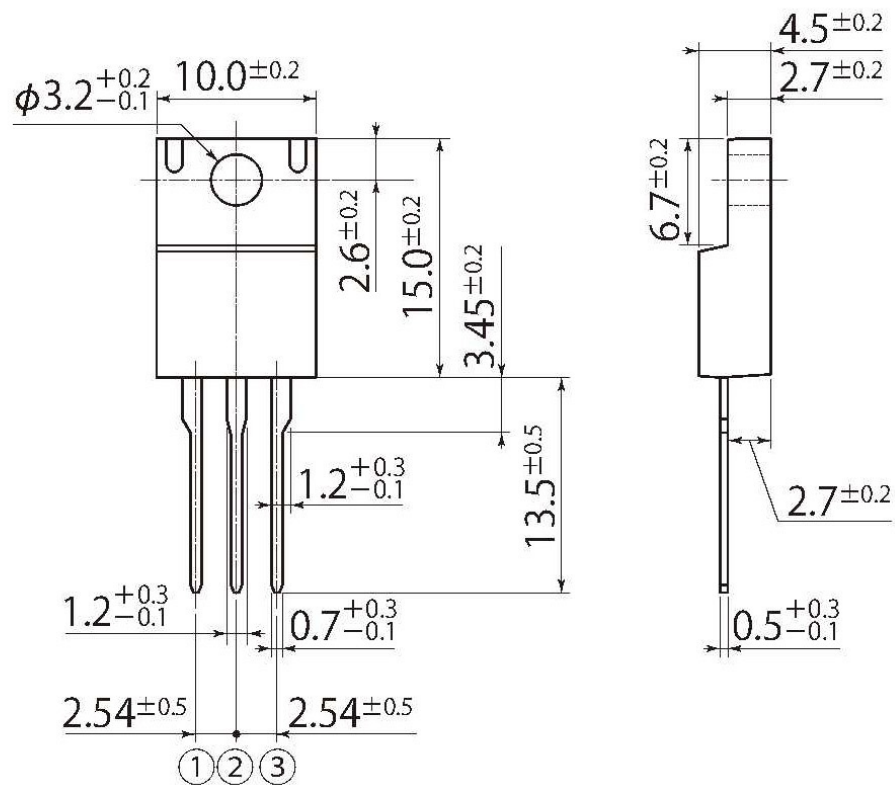


SG15SC4M Transient Thermal Impedance



J9

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



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