

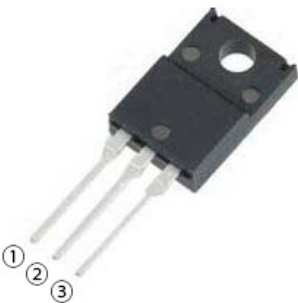
SG8SC4M
Schottky Barrier Diodes
40V, 8A

Feature

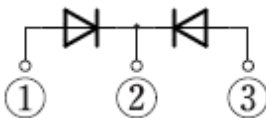
- High Recovery Speed
- Tj=175°C
- Low V_F
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): FTO-220G
Package (JEITA Code): SC-91



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : T_c=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}		40	V
Repetitive peak surge reverse voltage	V _{RRSM}	Pulse width 0.5ms, duty=1/40	45	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=155°C	8	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	80	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

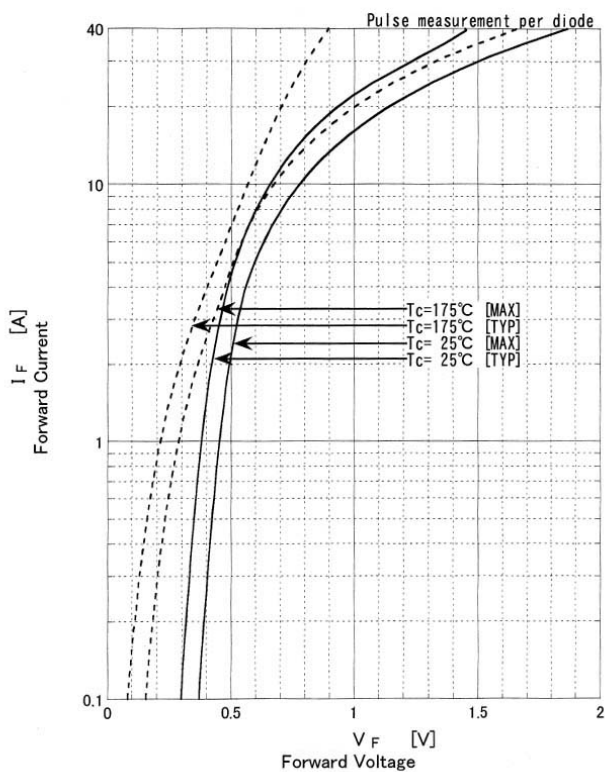
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=4A, Pulse measurement, per diode		0.49	0.56	V
Reverse current	I_R	VR=40V, Pulse measurement, per diode			0.3	mA
Total capacitance	Ct	f=1MHz, VR=10V, per diode		100		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			3.3	°C/W

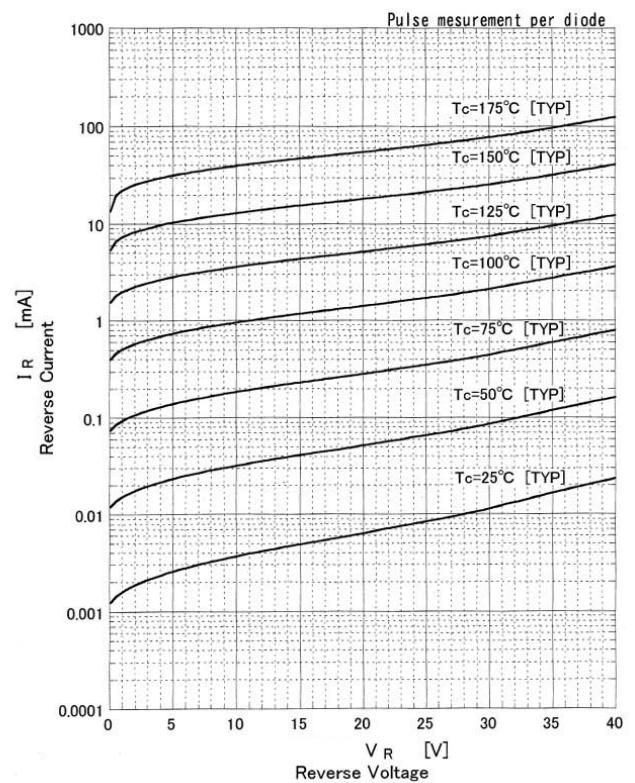
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

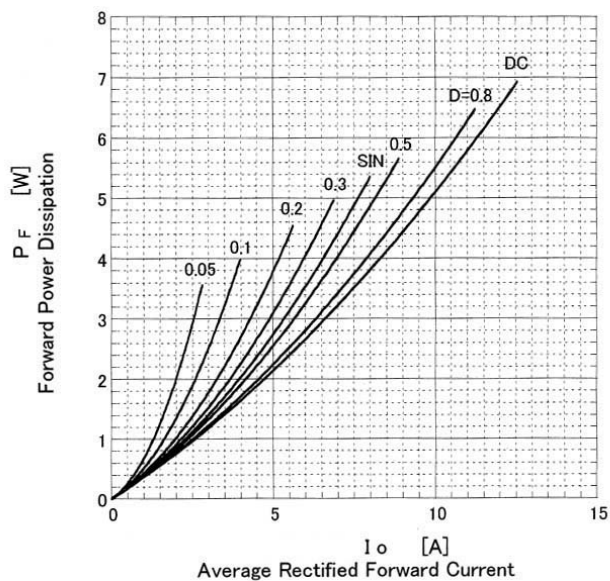
SG8SC4M Forward Voltage



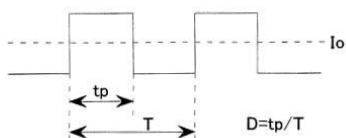
SG8SC4M Reverse Current



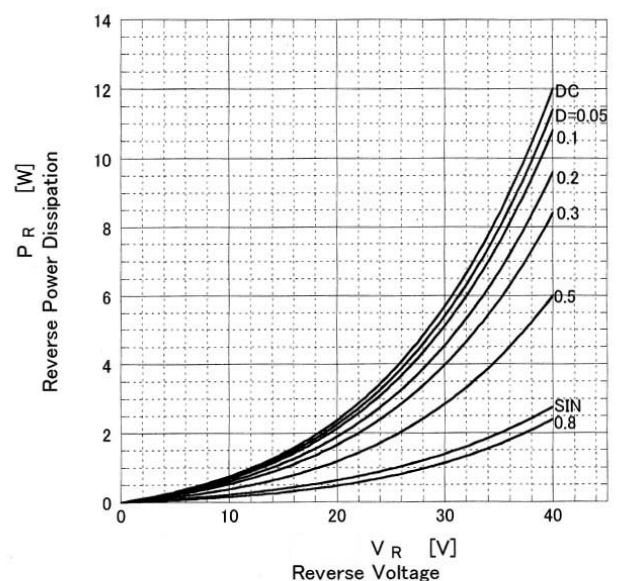
SG8SC4M Forward Power Dissipation



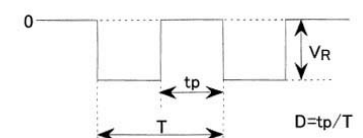
● $T_j = 175^\circ\text{C}$

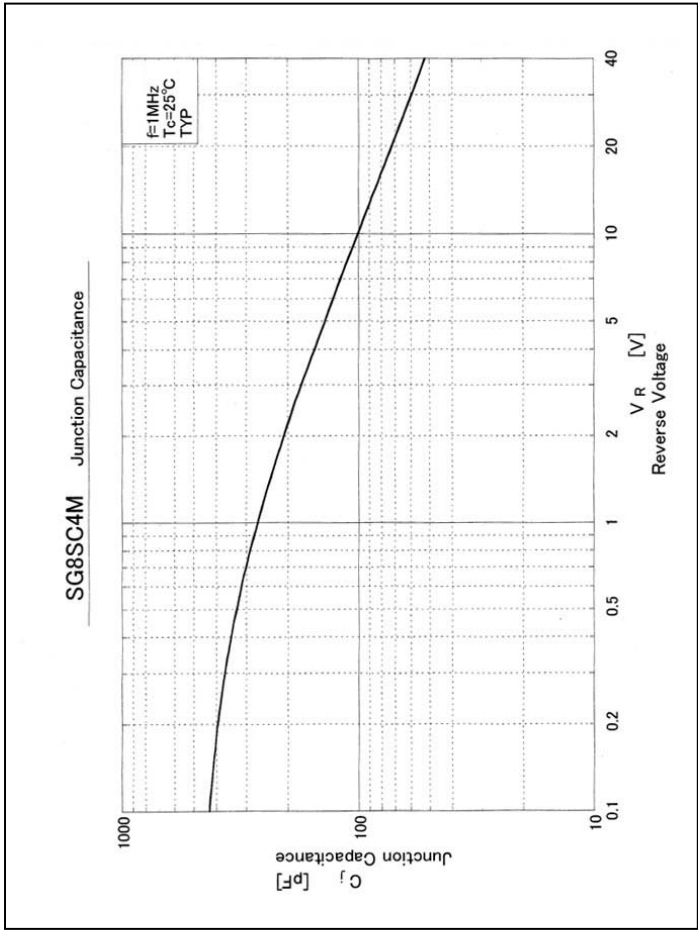
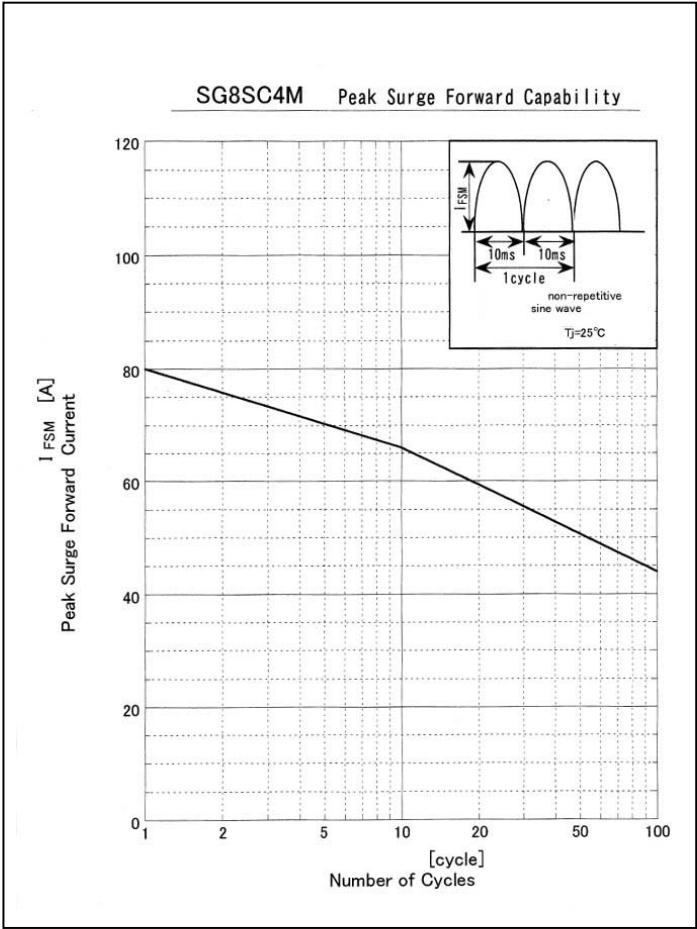
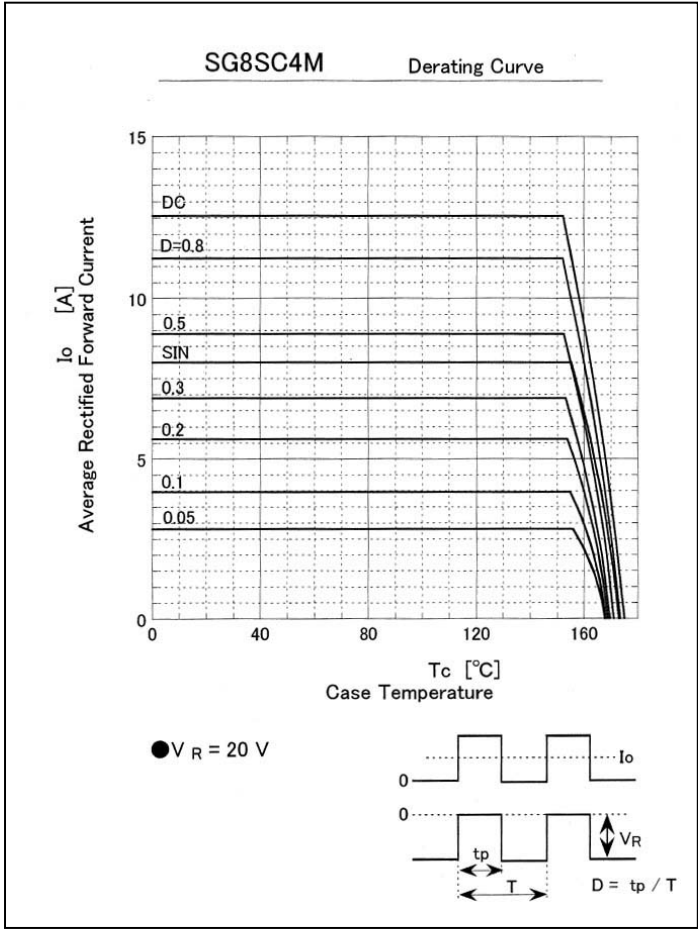


SG8SC4M Reverse Power Dissipation



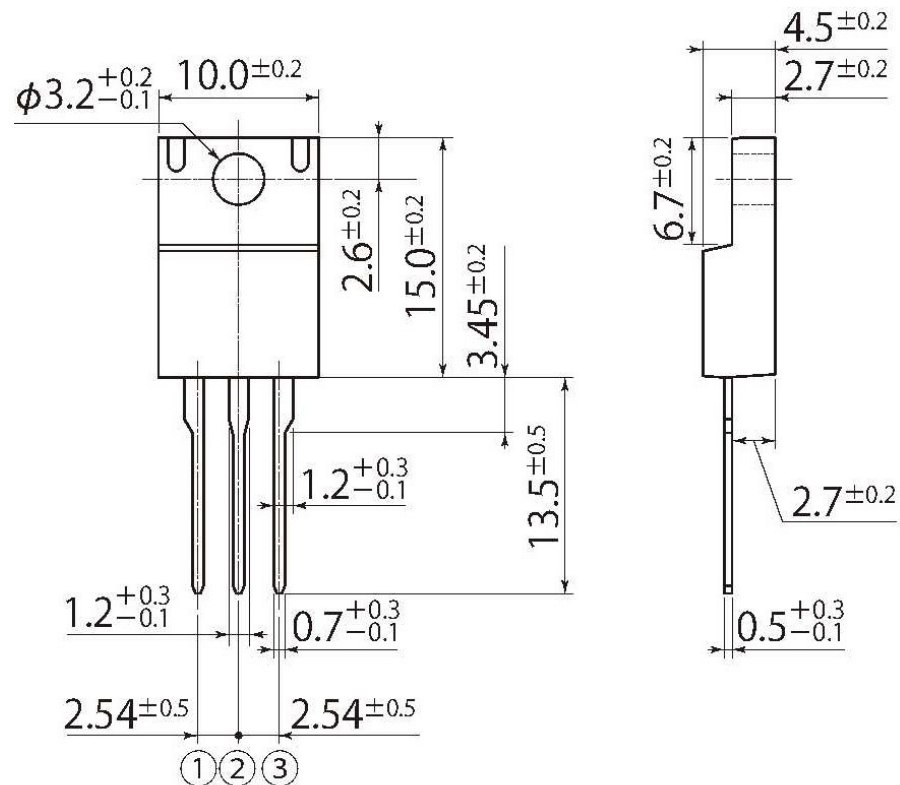
● $T_j = 175^\circ\text{C}$





J9

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



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