

SG5S6M

Schottky Barrier Diodes

60V, 5A

Feature

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

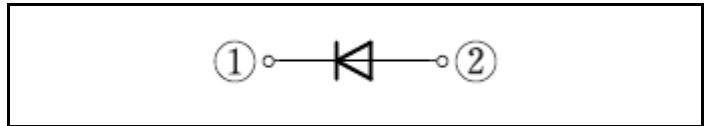
OUTLINE

Package (House Name): FTO-220G

Package (JEITA Code): SC-91



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : $T_C=25^{\circ}C$)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-55 to 150	$^{\circ}C$
Junction temperature	T_j		-55 to 150	$^{\circ}C$
Repetitive peak reverse voltage	V_{RRM}		60	V
Repetitive peak surge reverse voltage	V_{RRSM}	Pulse width 0.5ms, duty=1/40	65	V
Average forward current	$I_{F(AV)}$	50Hz sine wave, Resistance load, With heatsink, $T_C=130^{\circ}C$	5	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, $T_j=25^{\circ}C$	120	A
Dielectric strength	V_{dis}	Terminals to case backside, AC 1 minute.	1.5	kV
Mounting torque	TOR	(Recommended torque : 0.3N·m)	0.5	N·m

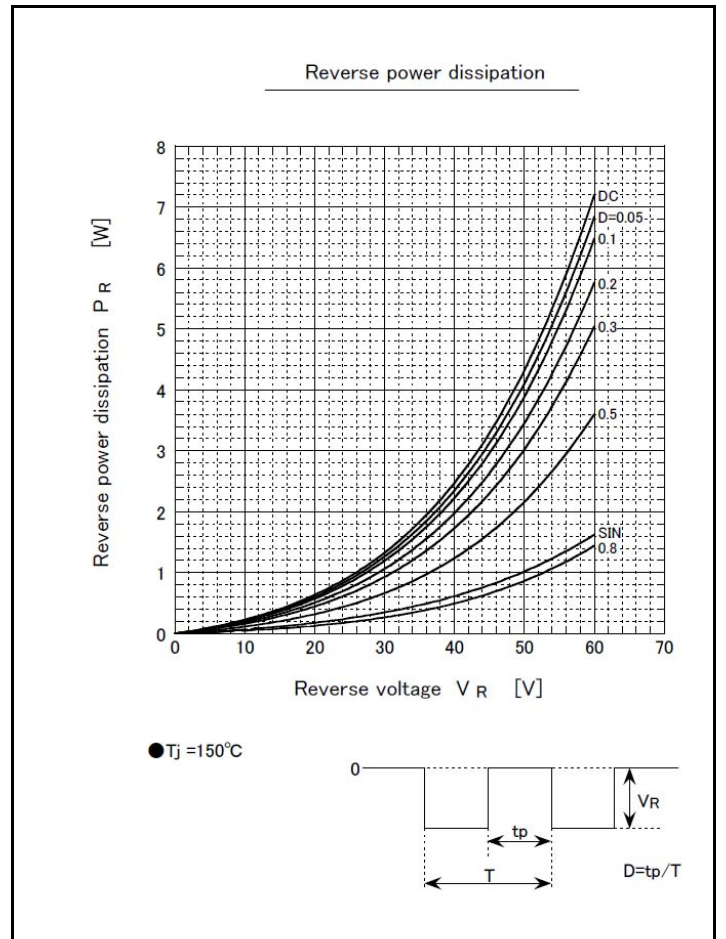
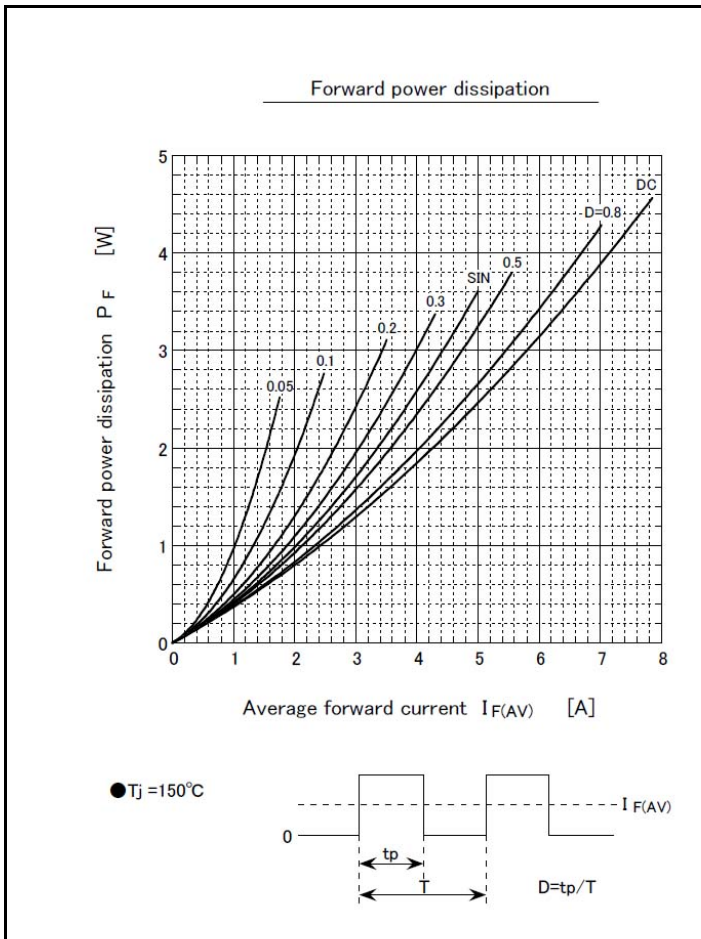
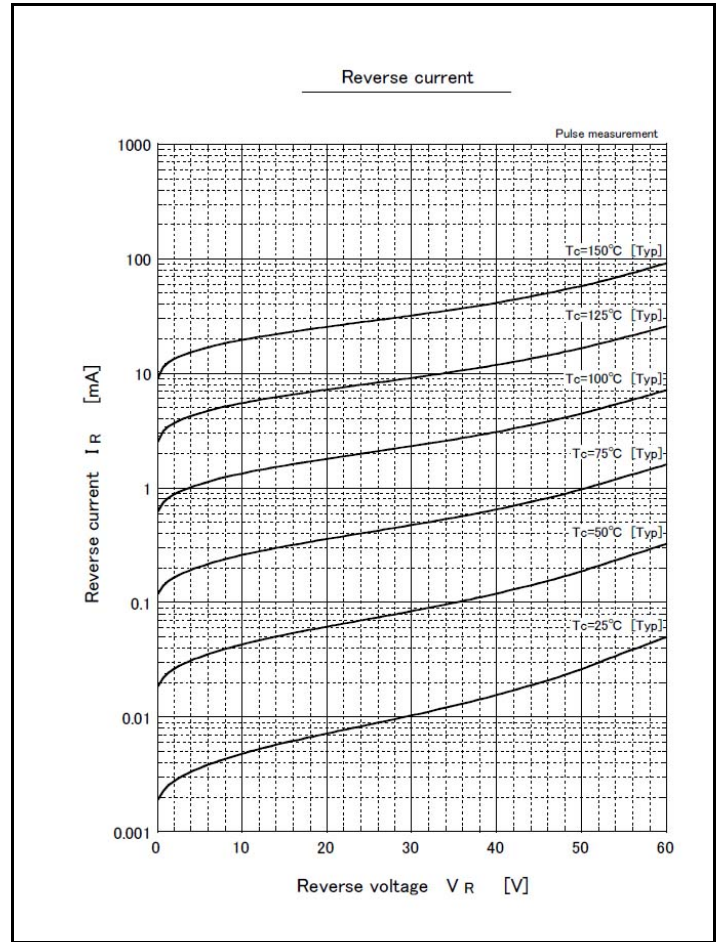
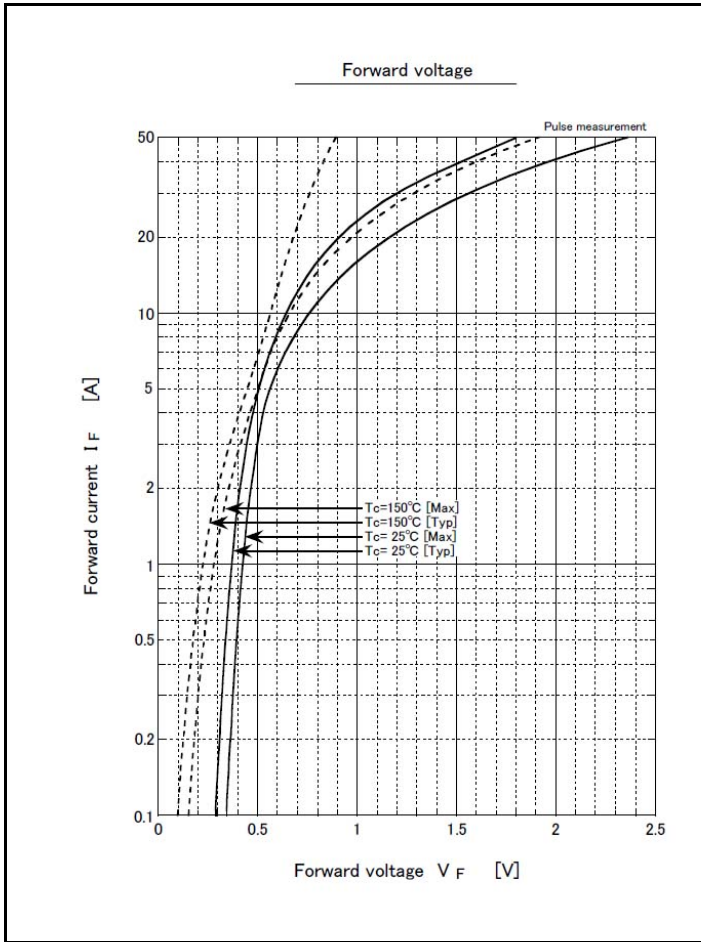
* : See the original Specifications

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

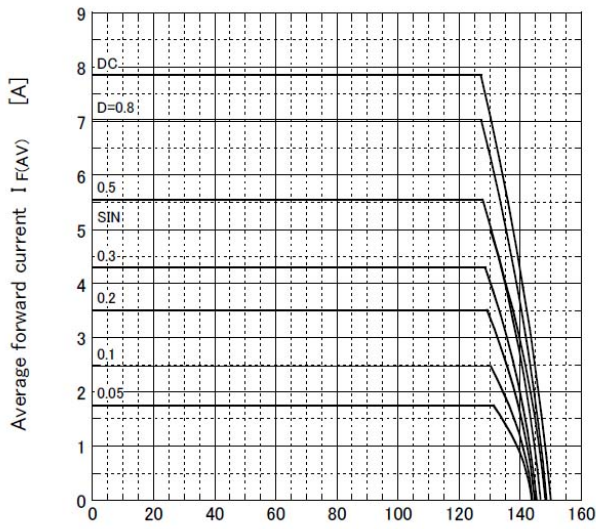
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =5A, Pulse measurement		0.51	0.56	V
Reverse current	I _R	V _R =60V, Pulse measurement			0.5	mA
Total capacitance	C _t	f=1MHz, V _R =10V		165		pF
Thermal resistance	R _{th(j-c)}	Junction to case, With heatsink			5	°C/W

* : See the original Specifications

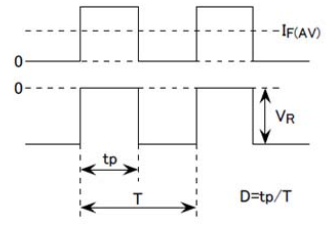
CHARACTERISTIC DIAGRAMS



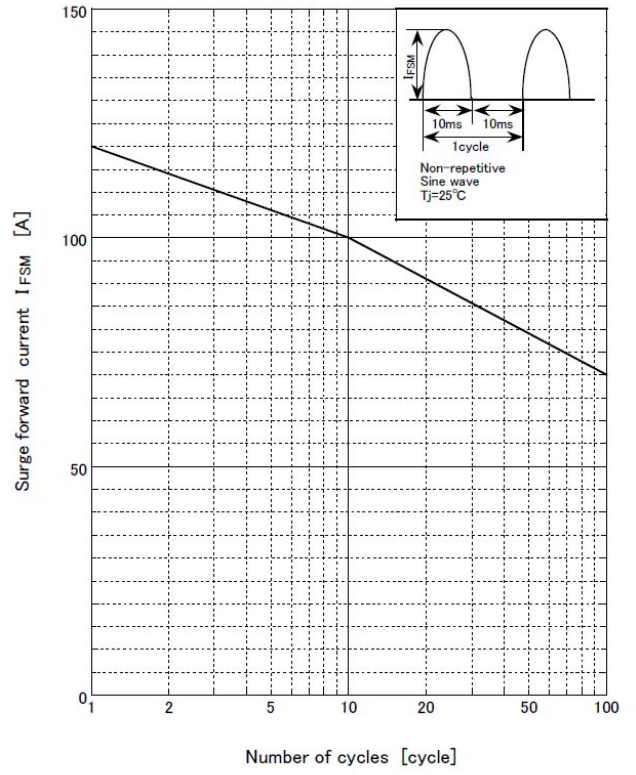
Derating curve



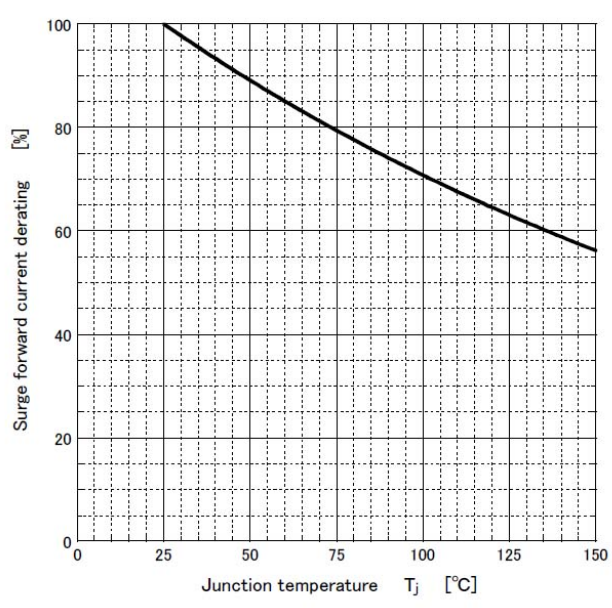
● $V_R = 30V$
R-load
With heatsink



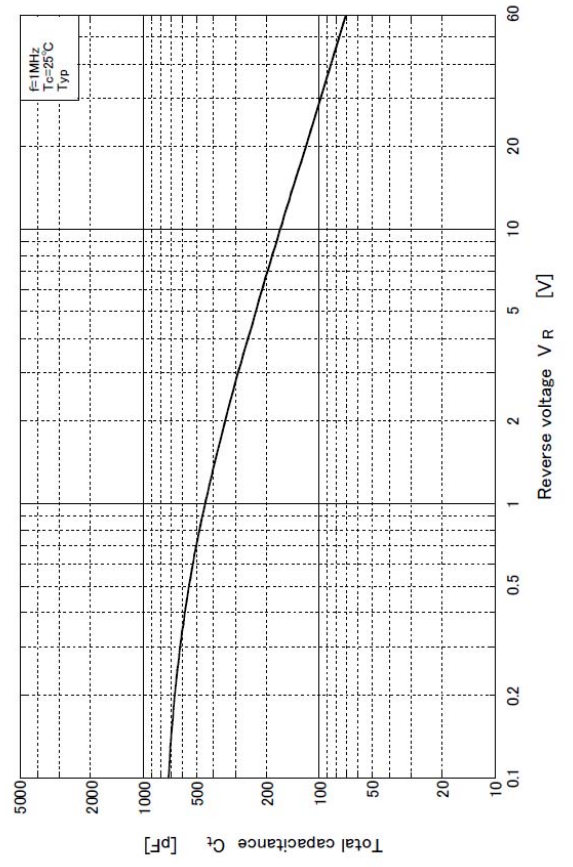
Surge forward current capability



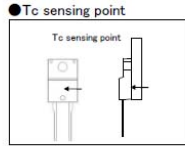
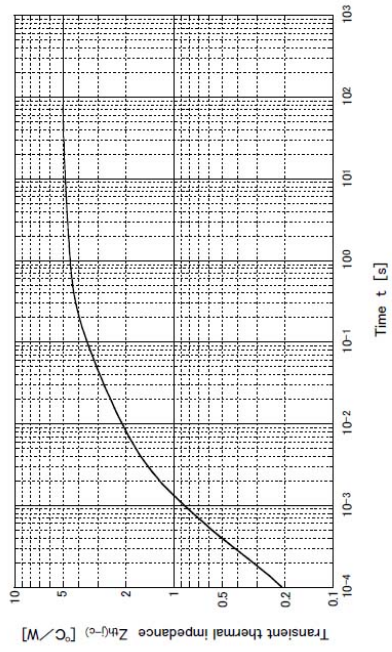
Surge forward current derating vs Junction temperature



Total capacitance

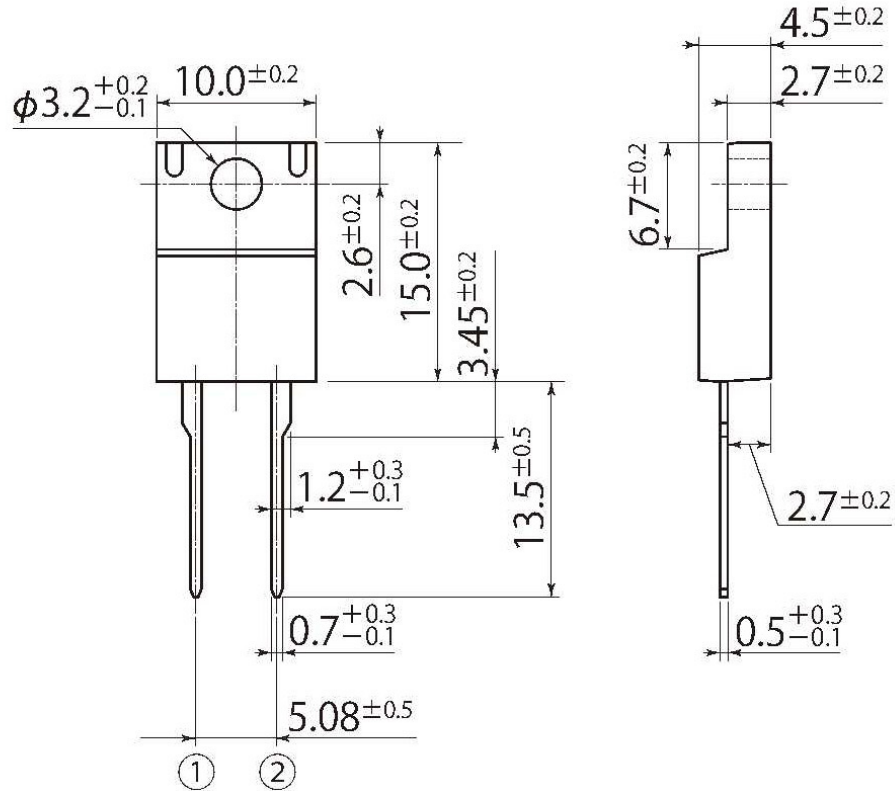


Transient thermal impedance



J4

JEDEC Code	—
JEITA Code	SC-91
House Name	FTO-220G(2pin)



Notes

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