

SG30JC6M

Schottky Barrier Diodes
60V, 30A

Feature

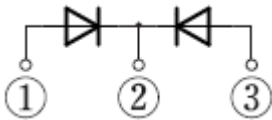
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

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		60	V
Repetitive peak surge reverse voltage	VRRSM	Pulse width 0.5ms, duty=1/40	65	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=90°C	30	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	250	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

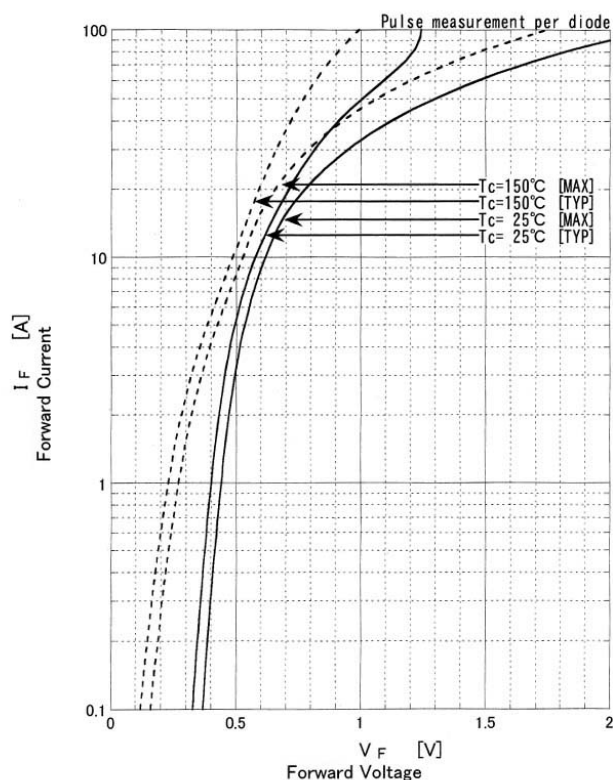
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=15A$, Pulse measurement, per diode		0.65	0.69	V
Reverse current	I_R	$V_R=60V$, Pulse measurement, per diode			0.15	mA
Total capacitance	C_t	$f=1MHz$, $V_R=10V$, per diode		325		pF
Thermal resistance	$R_{th(j-c)}$	Junction to case			2.2	°C/W

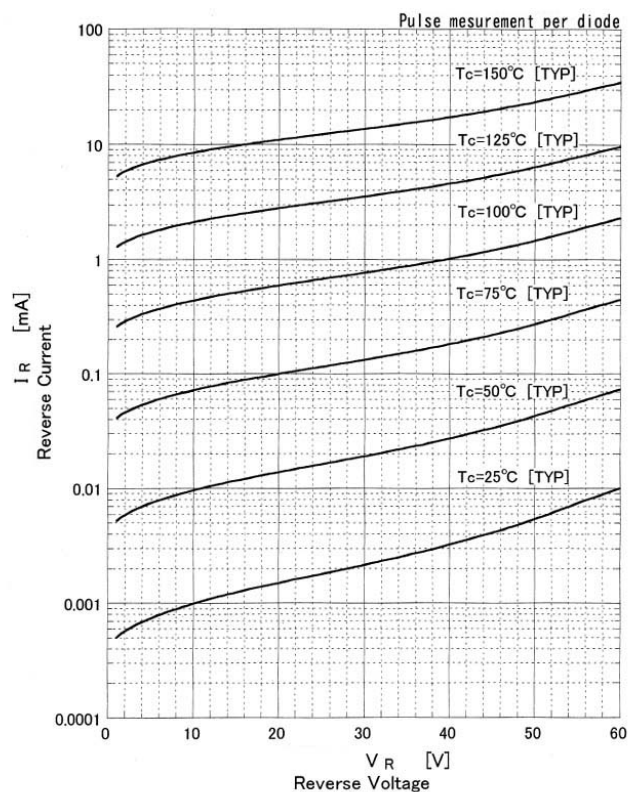
※ : See the original Specifications

CHARACTERISTIC DIAGRAMS

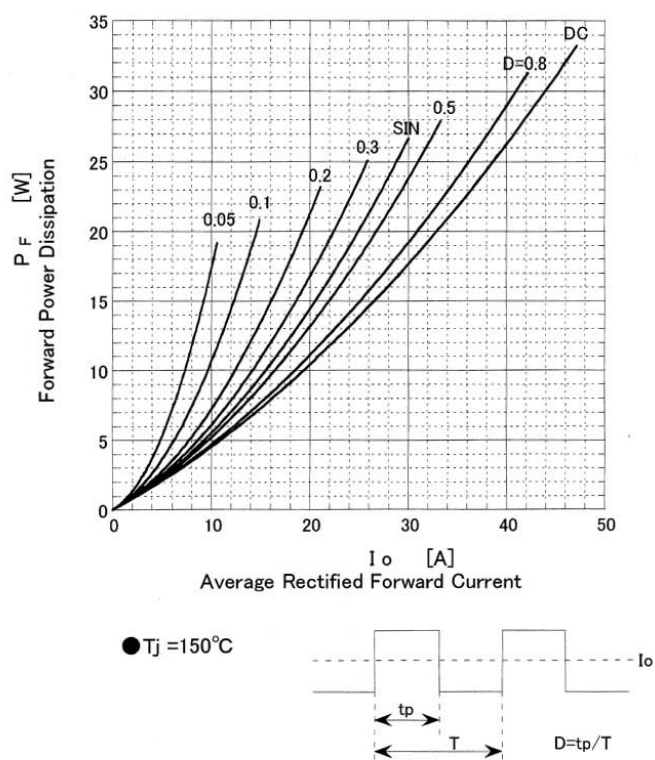
SG30JC6M Forward Voltage



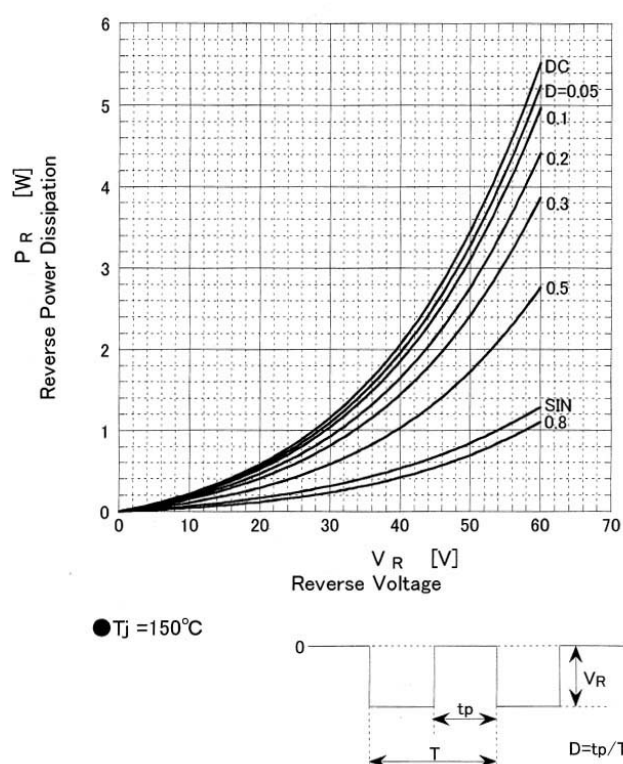
SG30JC6M Reverse Current



SG30JC6M Forward Power Dissipation

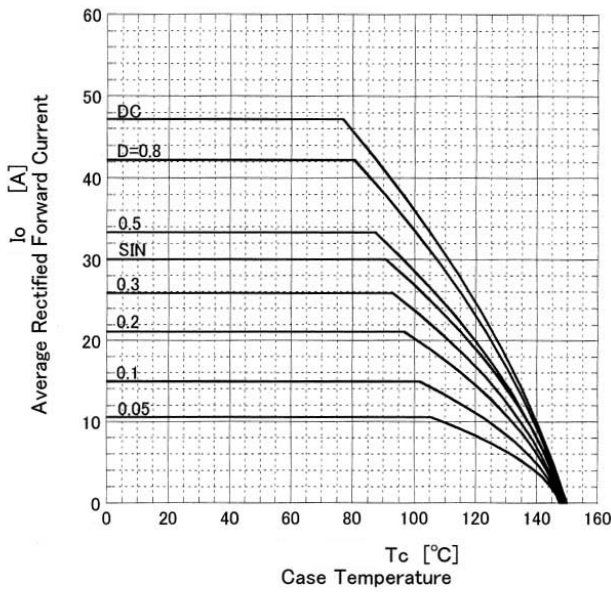


SG30JC6M Reverse Power Dissipation

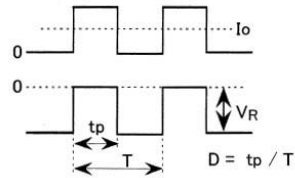


SG30JC6M

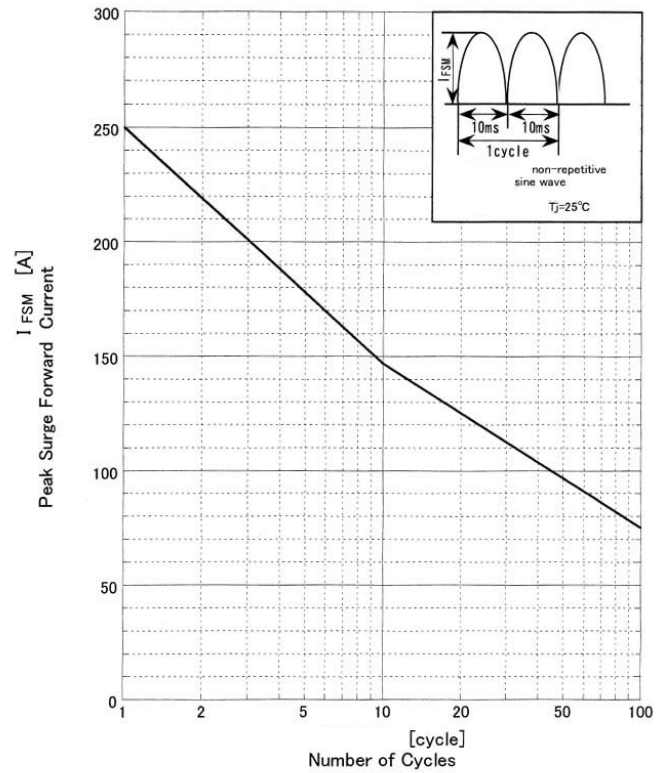
Derating Curve



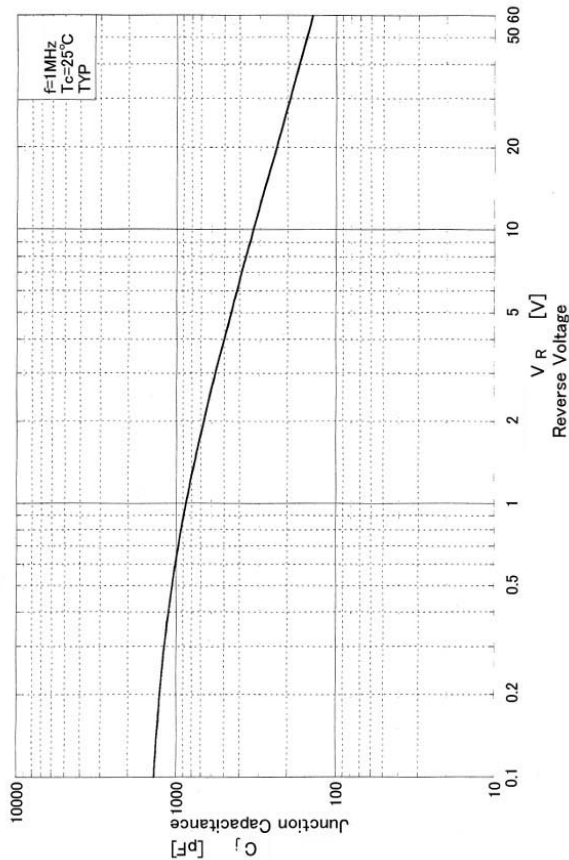
● $V_R = 30$ V



SG30JC6M Peak Surge Forward Capability

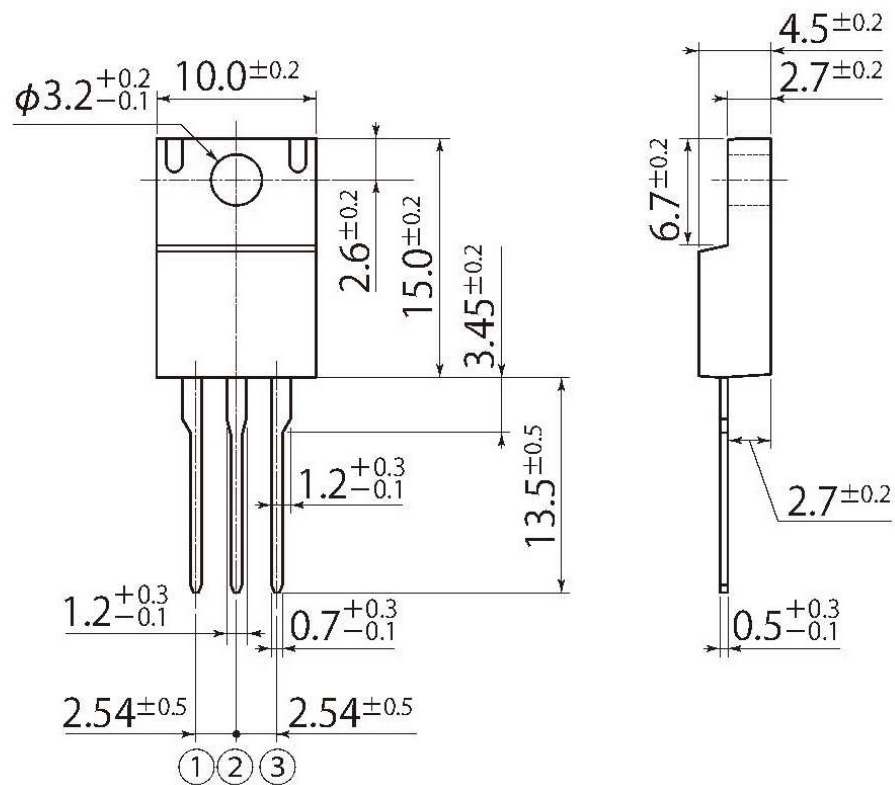


SG30JC6M Junction Capacitance



J9

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



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