

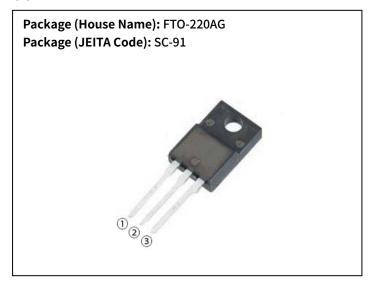
SF10KC60M

Fast Recovery Diodes 600V, 10A

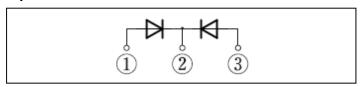
Feature

- Full Molded
- High Voltage
- Low Noise
- Dielectric Strength 2kV
- Pb free terminal
- RoHS:Yes

OUTLINE



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		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, With heatsink, Tc=109°C	10	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	120	Α
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Per diode, Tj=25°C	379	Α
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque: 0.3N·m)	0.5	N∙m

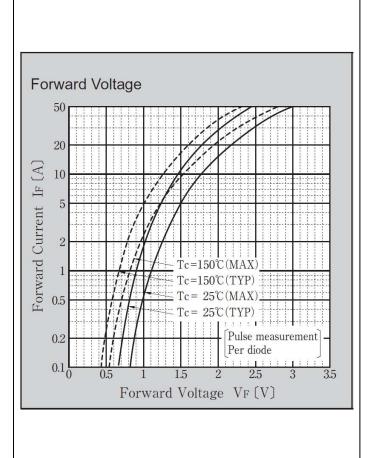
[※] ∶See the original Specifications

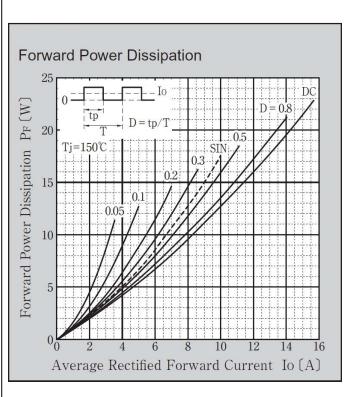
Electrical Characteristics (unless otherwise specified : Tc=25°C)

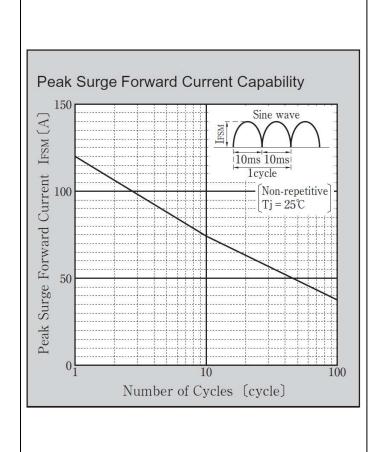
Item	Symbol	Conditions	Ratings			lluit.
			MIN	TYP	MAX	Unit
Forward voltage	V _F	IF=5A, Pulse measurement, Per diode		1.23	1.5	٧
Forward voltage	V _F	IF=0.5A, Pulse measurement, Per diode		0.81		٧
Reverse current	I _R	VR=600V, Pulse measurement, Per diode			10	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR, Per Diode			85	ns
Reverse recovery time	trr	IF=1.0A, VR=30V, di/dt=-50A/μs, 0.25IR, Per Diode			68	ns
Reverse recovery time	trr	IF=1.0A, VR=420V, di/dt=-50A/μs, 0.25IR, Per Diode			78	ns
Total capacitance	Ct	f=1MHz, VR=10V, Per diode		28		pF
Thermal resistance	Rth(j-c)	Junction to case			2.3	°C/W

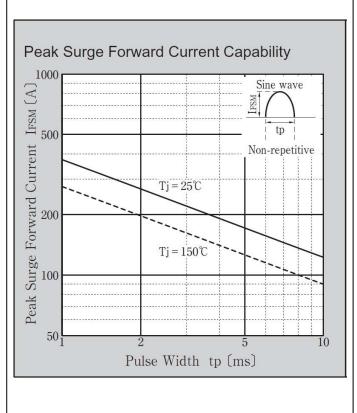
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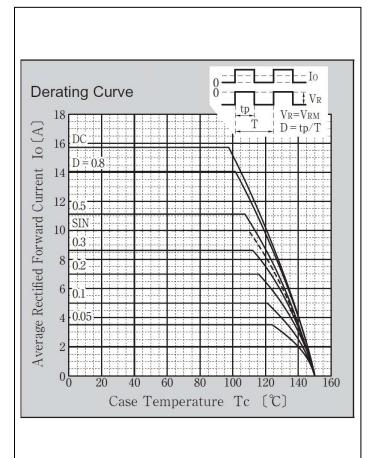
CHARACTERISTIC DIAGRAMS

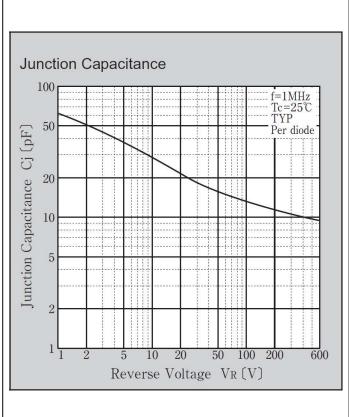






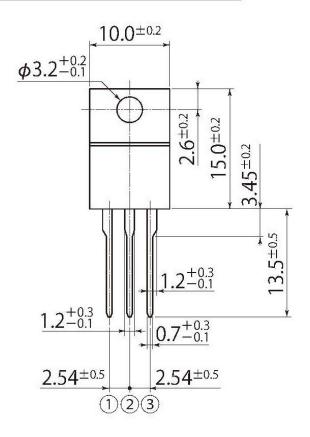


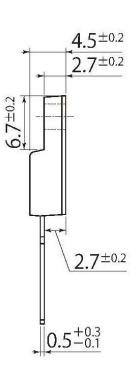




J8

JEDEC Code	_		
JEITA Code	SC-91		
House Name	FTO-220AG(3pin)		





Notes

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