

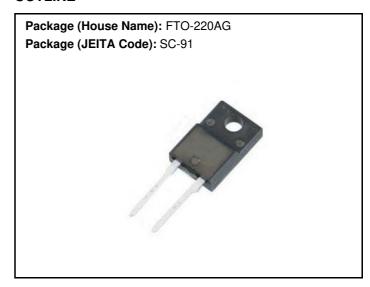
SF8K60USM

Fast Recovery Diodes 600V, 8A

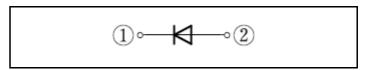
Feature

- 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		150 °c		
Repetitive peak reverse voltage	V_{RRM}		600	V	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tc=70°C	8	Α	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tc=111°C	5	Α	
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	А	
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, 1 cycle, Peak value, Tj=25°C	145	А	
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV	
Mounting torque	TOR	(Recommended torque : 0.3N⋅m)	0.5	N∙m	

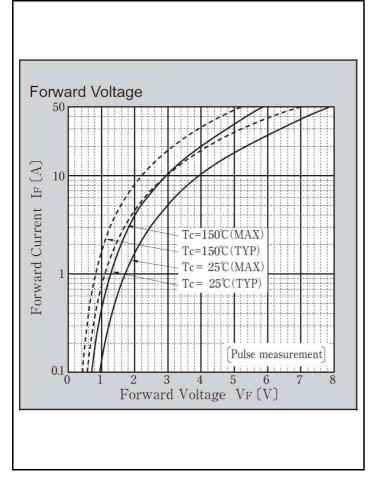
^{* :}See the original Specifications

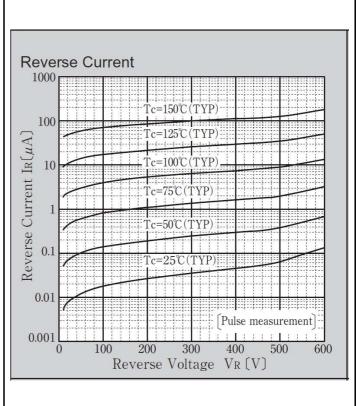
Electrical Characteristics (unless otherwise specified : Tc=25°C)

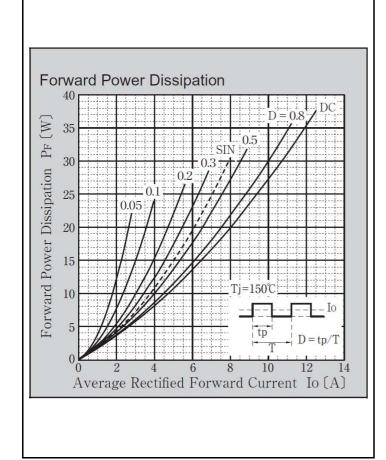
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oilit
Forward voltage	V _F	IF=8A, Pulse measurement		2.7	3.6	V
Forward voltage	V _F	IF=5A, Pulse measurement		2.2	3	V
Reverse current	I _R	VR=600V, Pulse measurement			50	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A			25	ns
Total capacitance	Ct	f=1MHz, VR=10V		24		pF
Thermal resistance	Rth(j-c)	Junction to case			2.6	°C/W

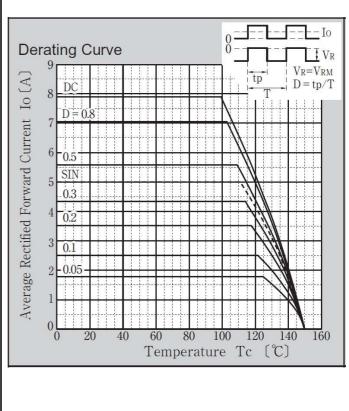
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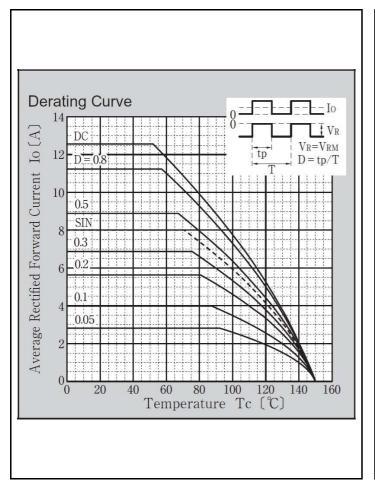
CHARACTERISTIC DIAGRAMS

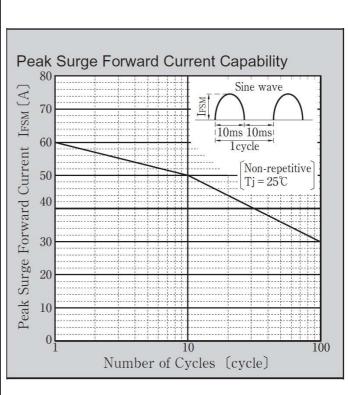


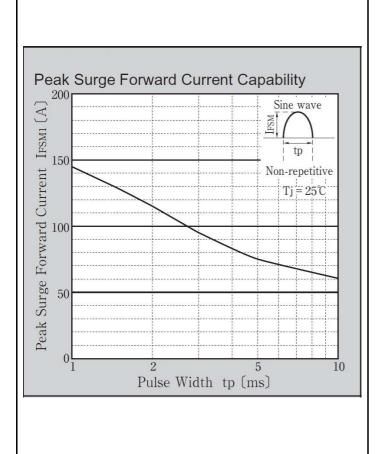


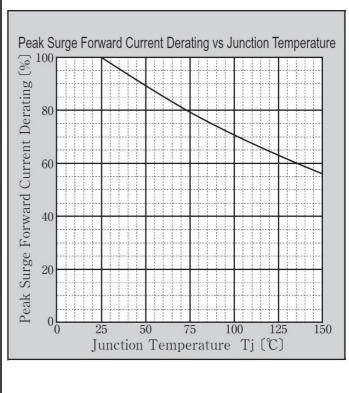


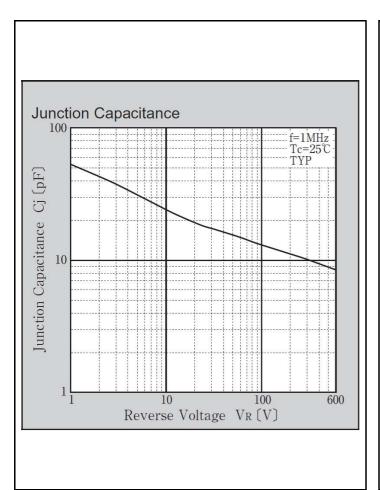


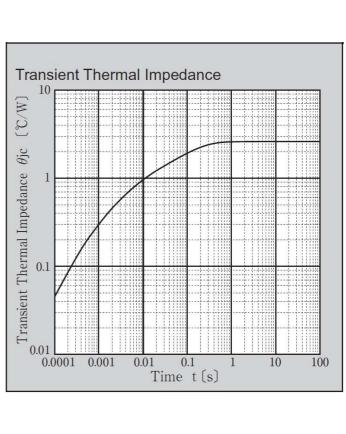






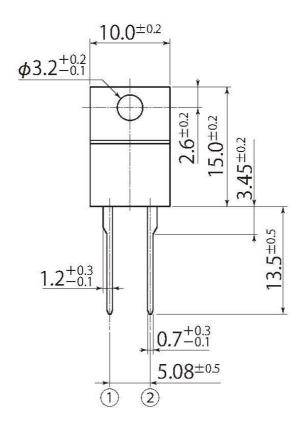


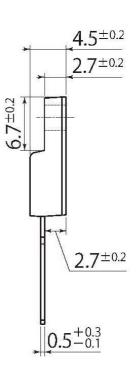




J3

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





Notes

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[Special applications]

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