

SF10K60M

Fast Recovery Diodes

600V, 10A

Feature

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

OUTLINE

Package (House Name): FTO-220AG

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		-55 to 150	°C
Repetitive peak reverse voltage	VRRM		600	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=106°C	10	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	180	A
Surge forward current	IFSM1	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	569	A
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 0.3N・m)	0.5	N・m

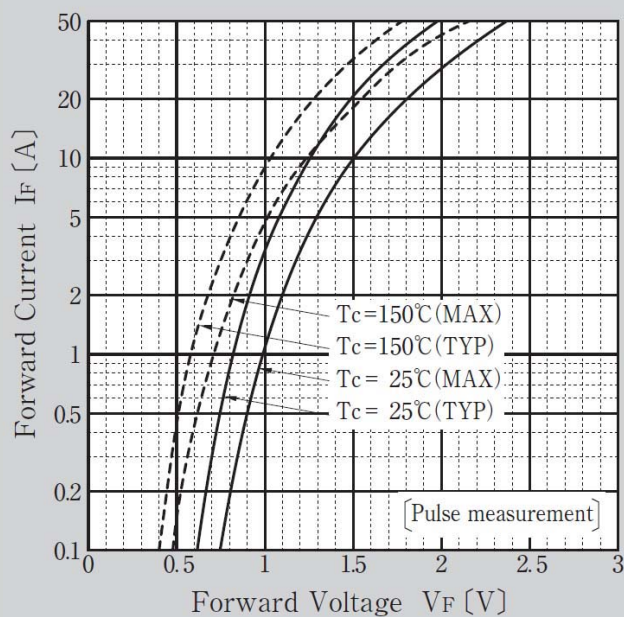
※ :See the original Specifications

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

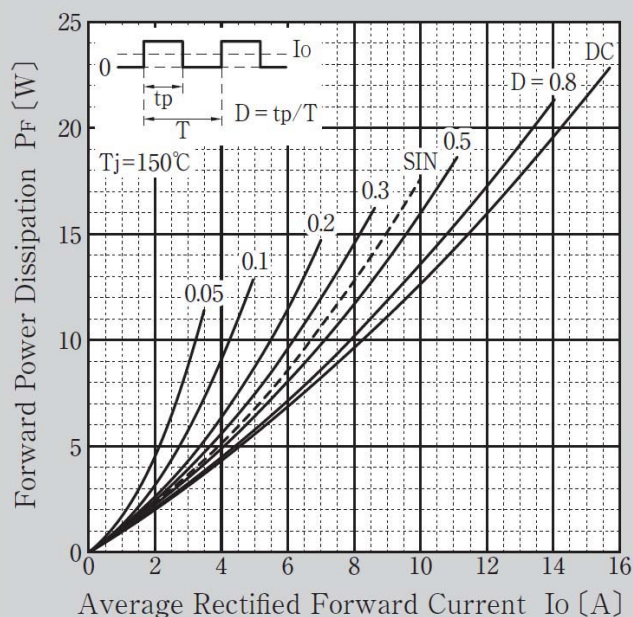
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=10A, Pulse measurement		1.25	1.5	V
Forward voltage	V_F	IF=1A, Pulse measurement		0.82		V
Reverse current	I_R	VR=600V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			95	ns
Reverse recovery time	trr	IF=1.0A, VR=30V, di/dt=-50A/μs, 0.25IR			72	ns
Reverse recovery time	trr	IF=1.0A, VR=420V, di/dt=-50A/μs, 0.25IR			84	ns
Total capacitance	Ct	f=1MHz, VR=10V		53		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2.5	°C/W

※ :See the original Specifications

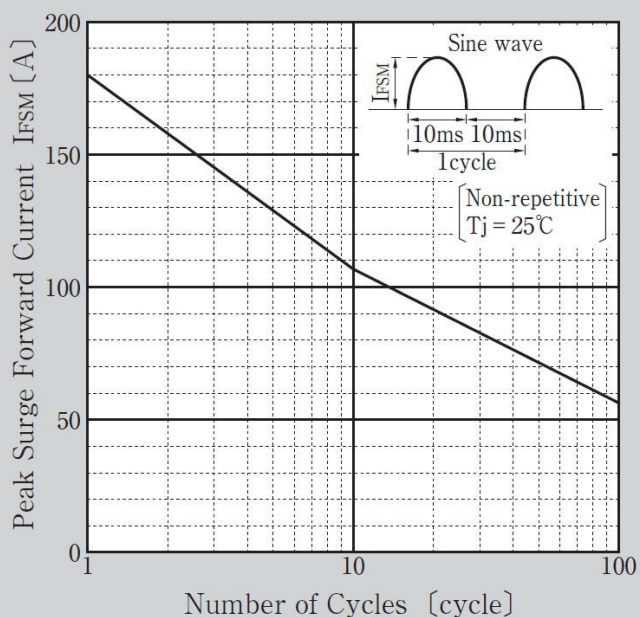
Forward Voltage



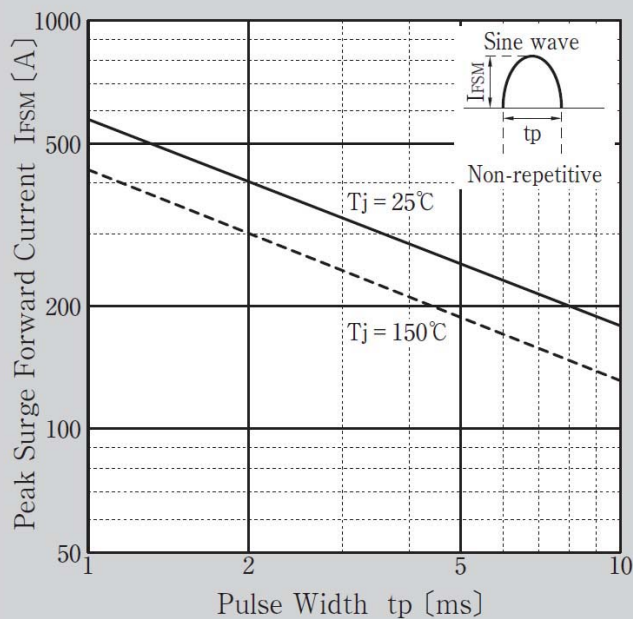
Forward Power Dissipation

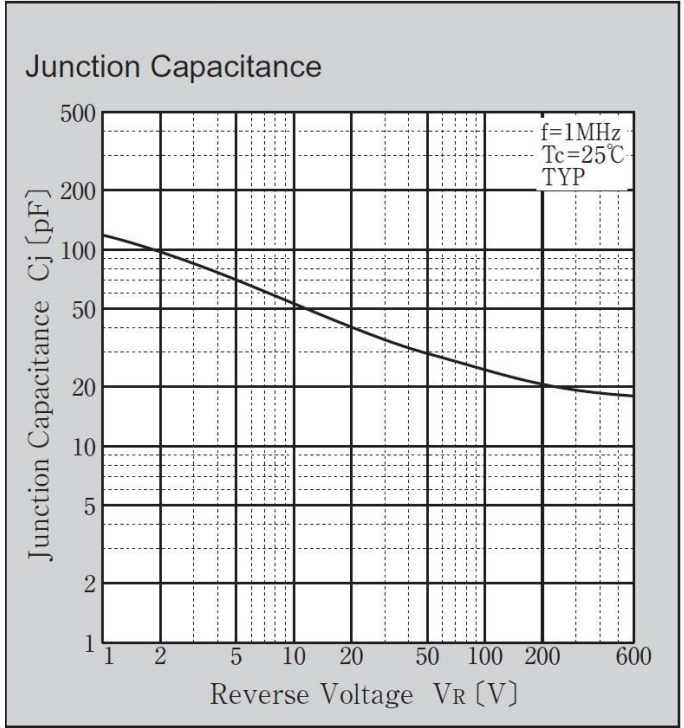
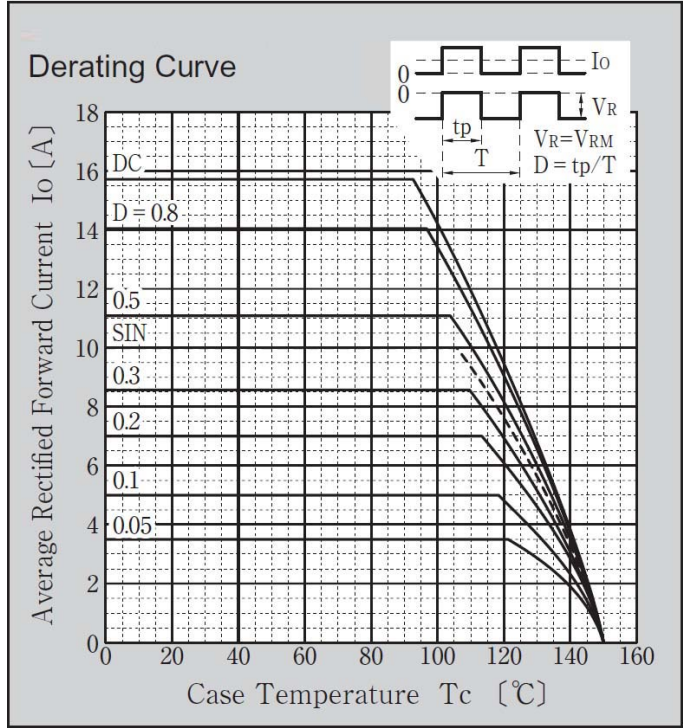


Peak Surge Forward Current Capability



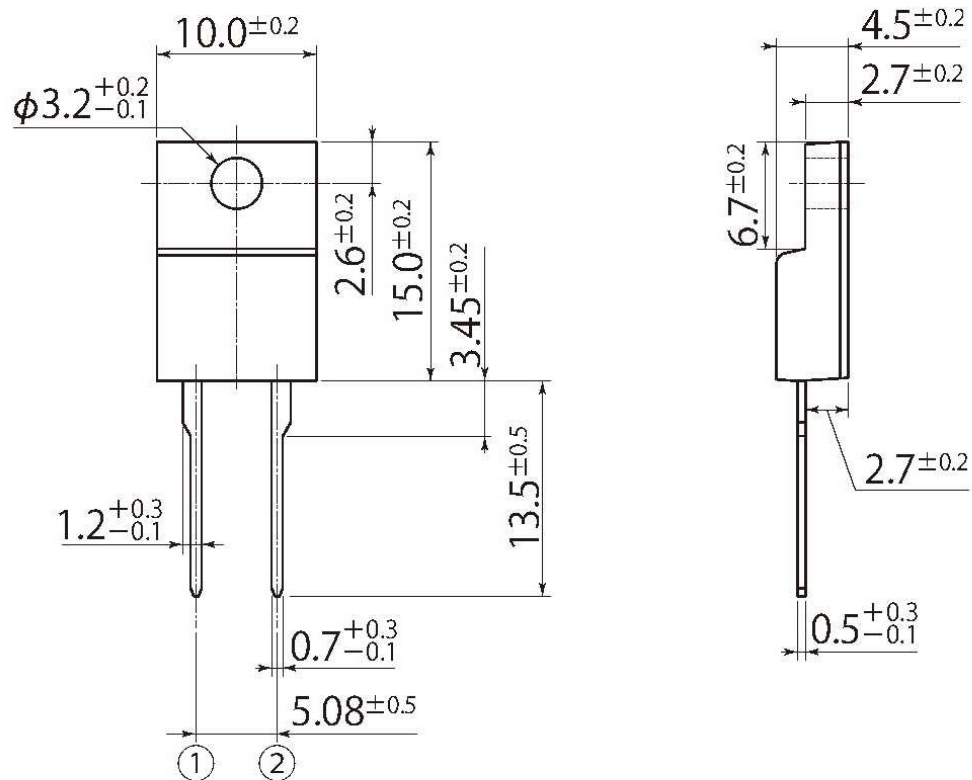
Peak Surge Forward Current Capability





J3

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



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