

SF3K60M

Fast Recovery Diodes

600V, 3A

Feature

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

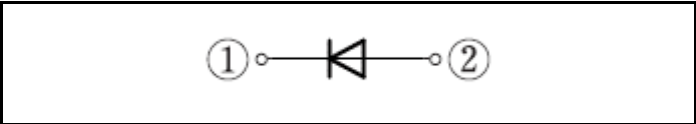
OUTLINE

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		150	°C
Repetitive peak reverse voltage	VRRM		600	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Tc=132°C	3	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	90	A
Surge forward current	IFSM1	tp=1ms, Sine wave, Non-repetitive, 1 cycle, Peak value, Tj=25°C	210	A
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 0.3N・m)	0.5	N・m

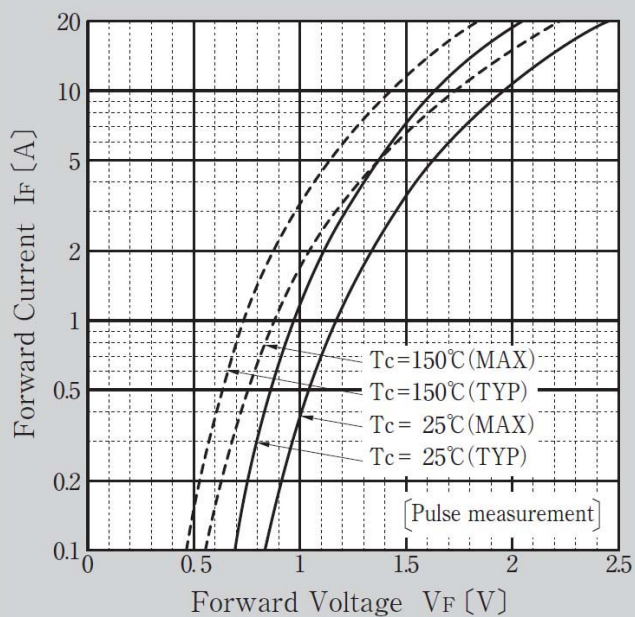
※ :See the original Specifications

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

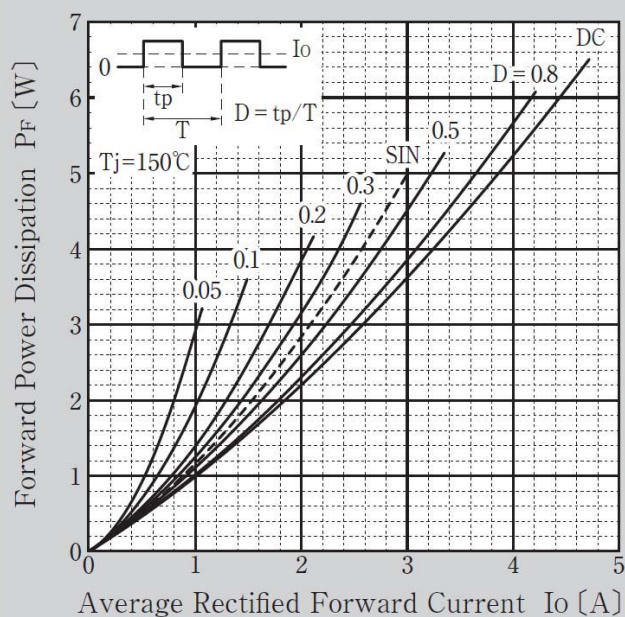
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=3.0A, Pulse measurement		1.21	1.45	V
Forward voltage	$V_F$	IF=0.3A, Pulse measurement		0.81		V
Reverse current	$I_R$	VR=600V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			80	ns
Reverse recovery time	trr	IF=1.0A, VR=30V, di/dt=-50A/μs, 0.25IR			64	ns
Reverse recovery time	trr	IF=1.0A, VR=420V, di/dt=-50A/μs, 0.25IR			76	ns
Total capacitance	Ct	f=1MHz, VR=10V		18		pF
Thermal resistance	Rth(j-c)	Junction to case			3.5	°C/W

※ :See the original Specifications

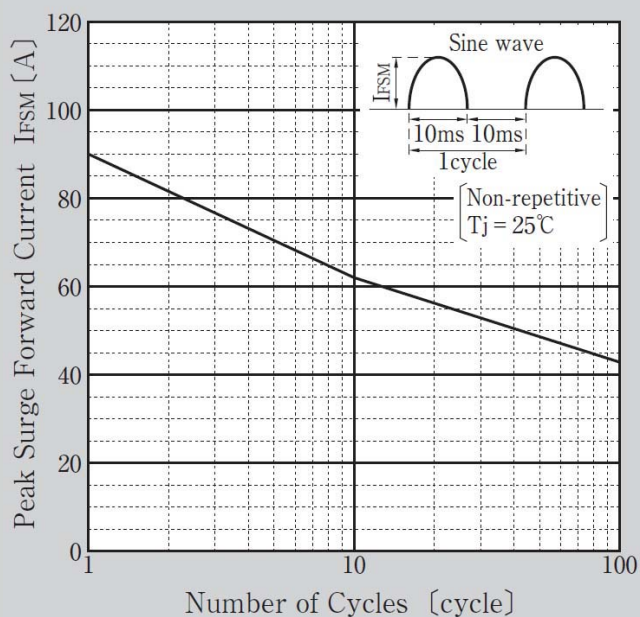
## Forward Voltage



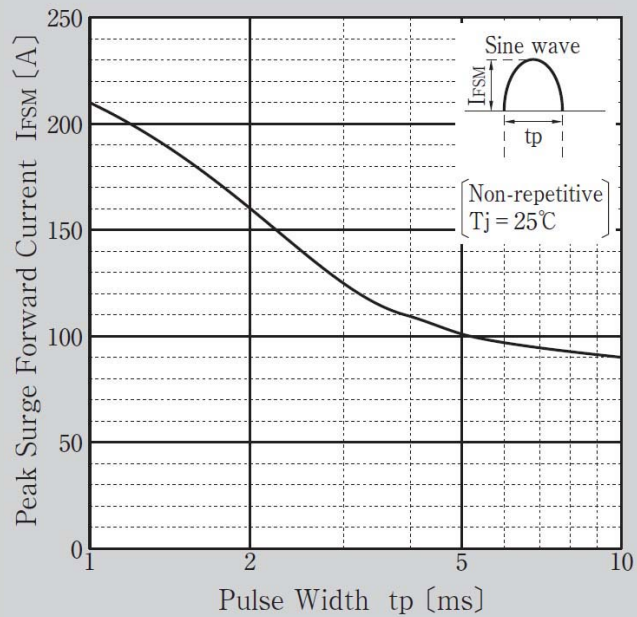
## Forward Power Dissipation

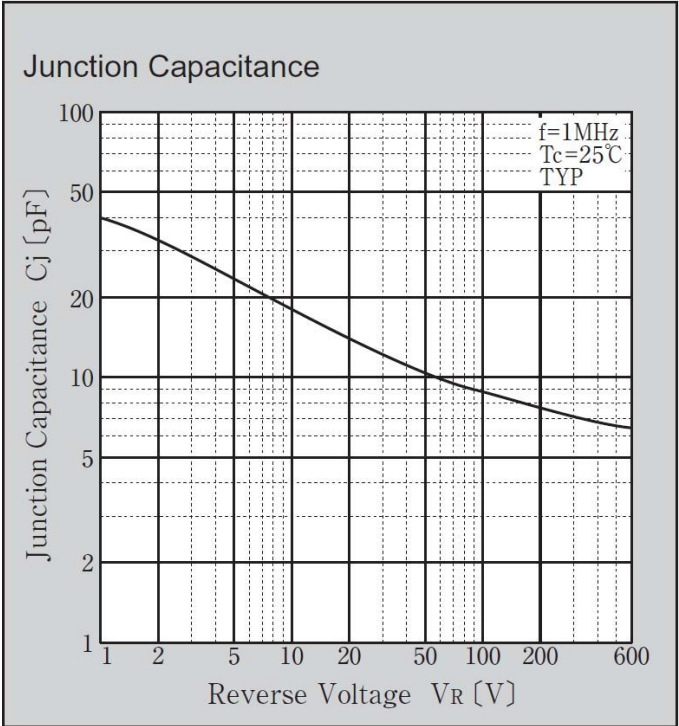
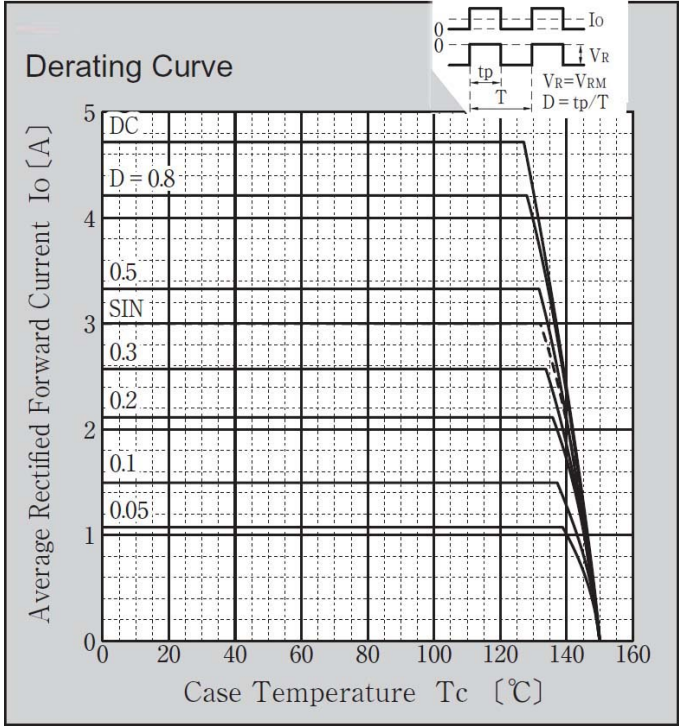


## Peak Surge Forward Current Capability



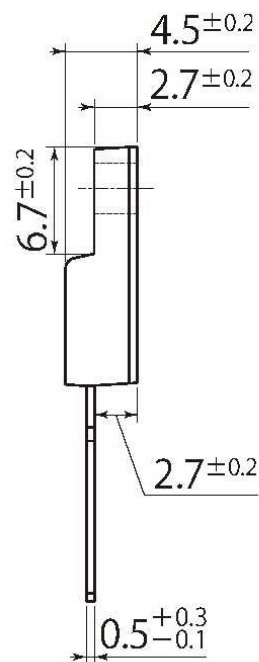
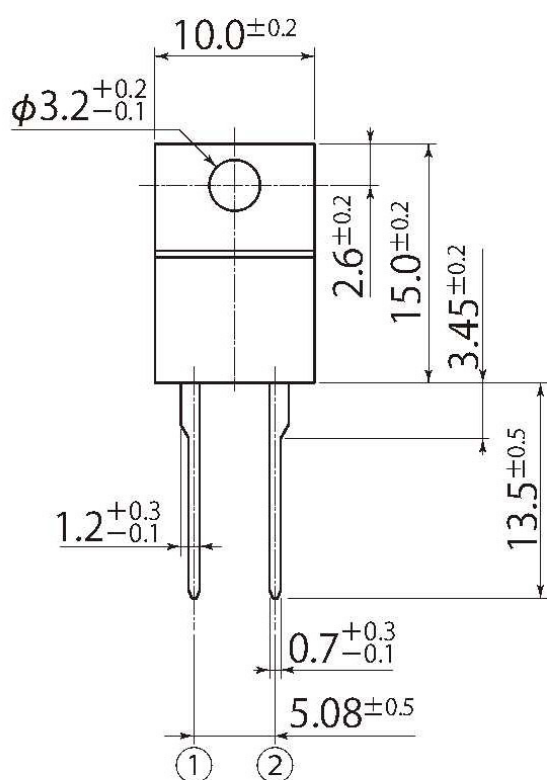
## Peak Surge Forward Current Capability





J3

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



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