

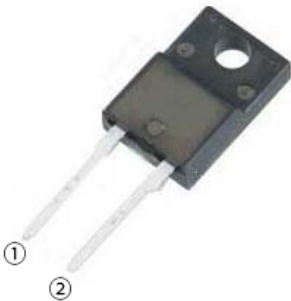
SF10L60MSM
Fast Recovery Diodes
600V, 10A

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	V _{RRM}		600	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Tc=110°C	10	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	160	A
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	290	A
Dielectric strength	Vdis	Terminals to case, backside, AC 1 minute, Cut-off current 0.5mA	2	kV
Mounting torque	TOR	(Recommended torque : 0.3N·m)	0.5	N·m

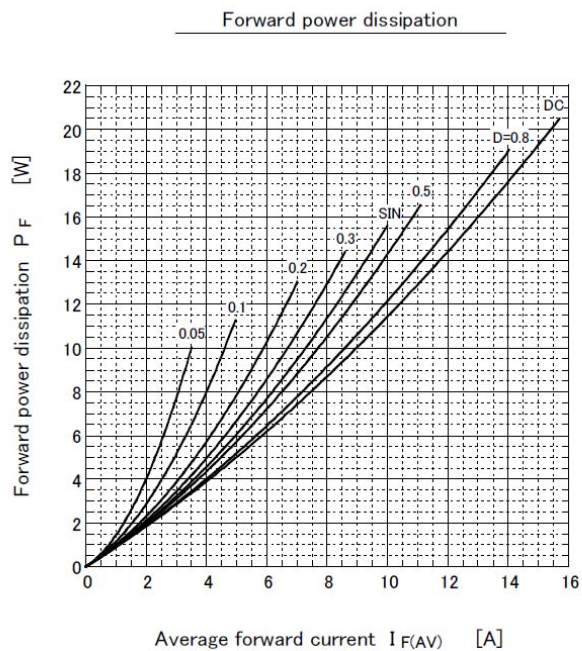
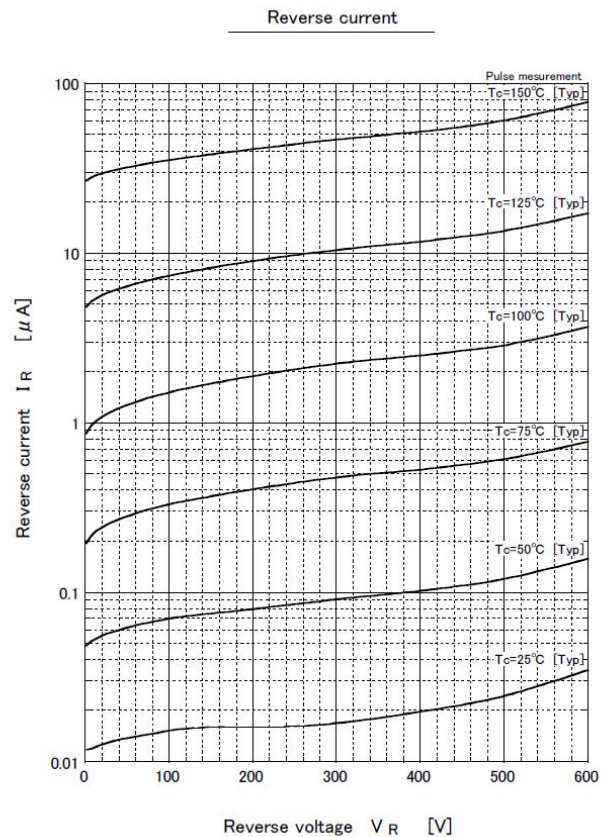
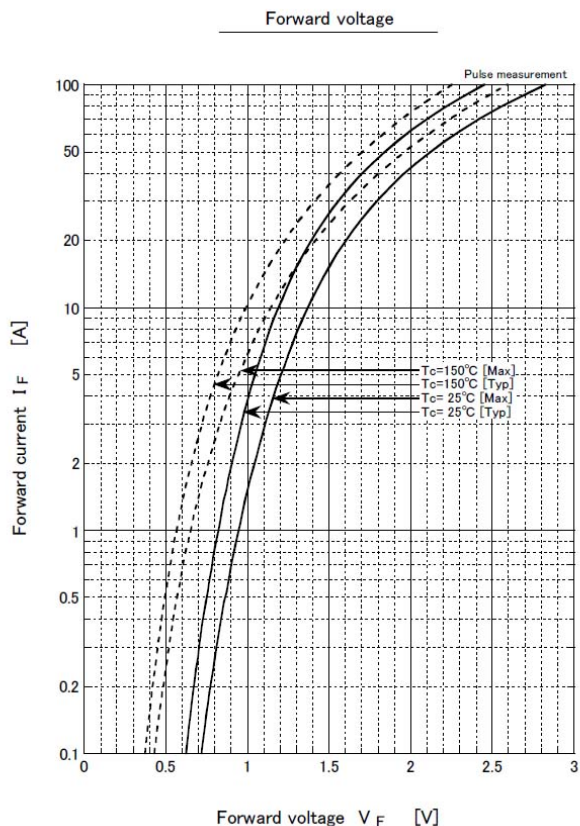
※ :See the original Specifications

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

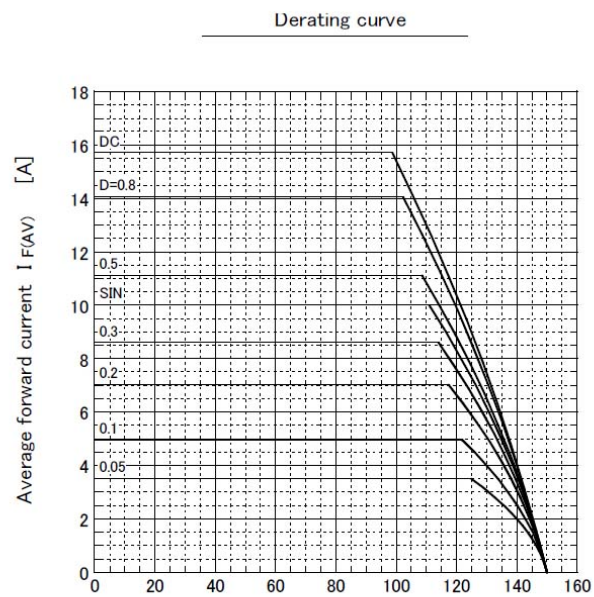
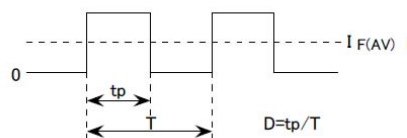
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=10A, Pulse measurement			1.37	V
Reverse current	I_R	VR=600V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			60	ns
Total capacitance	Ct	f=1MHz, VR=10V		61		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2.5	°C/W

※ :See the original Specifications

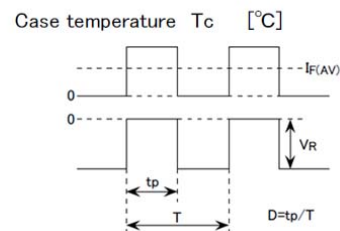
CHARACTERISTIC DIAGRAMS

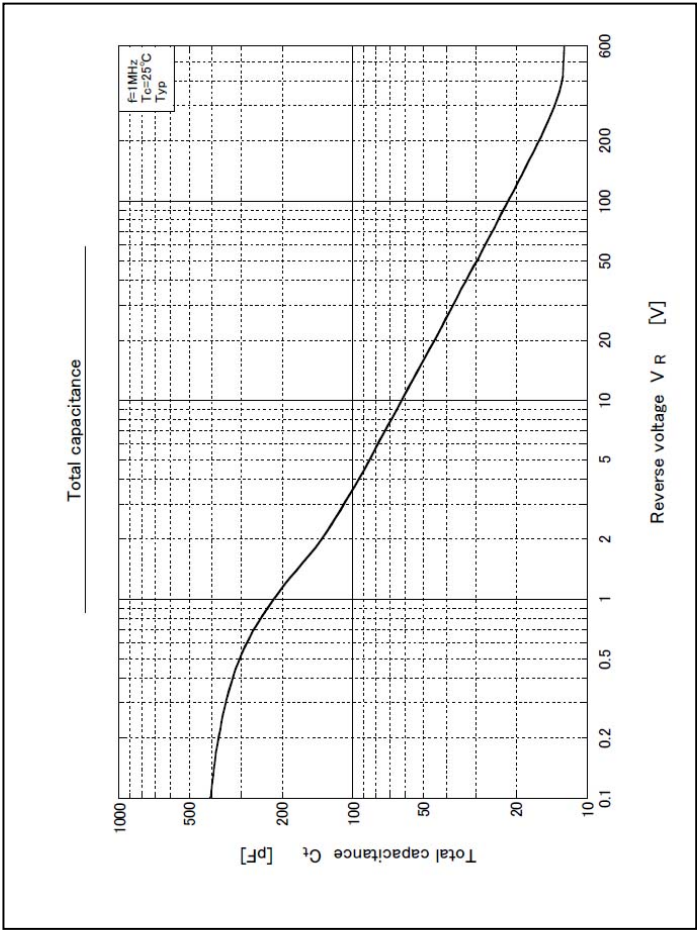
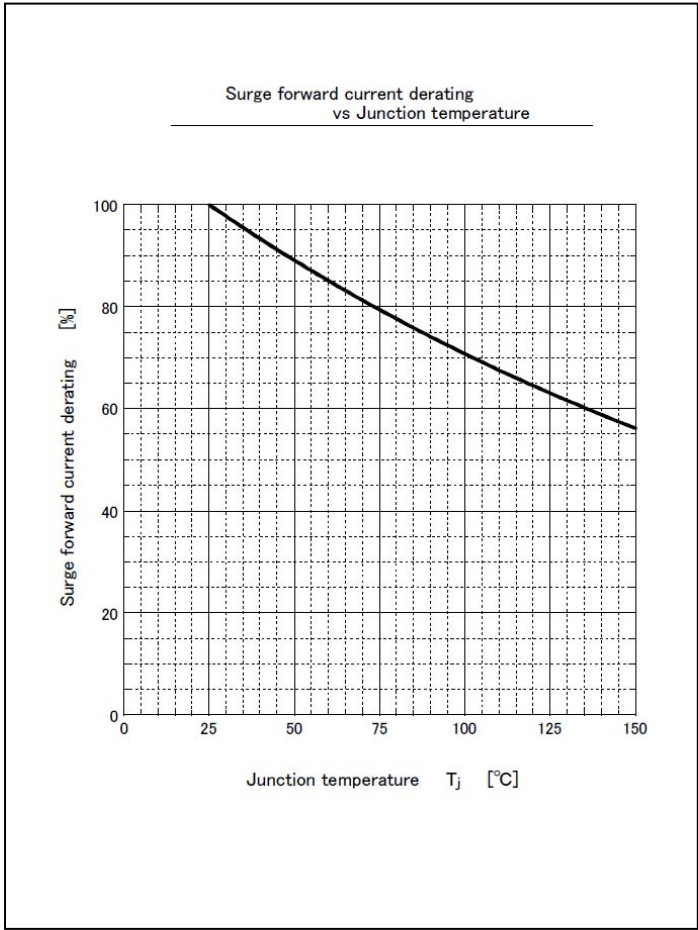
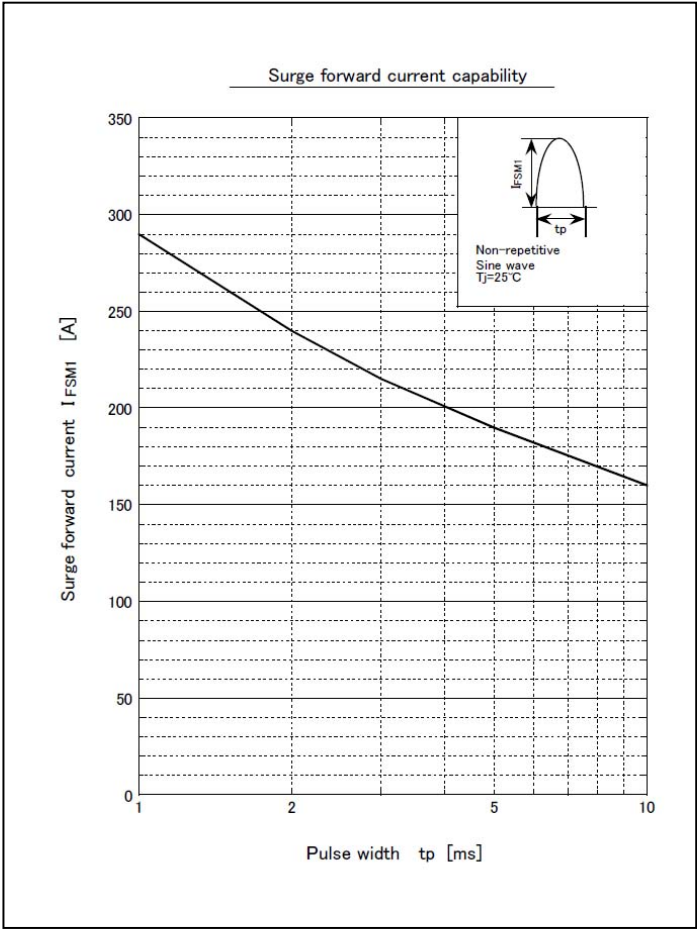
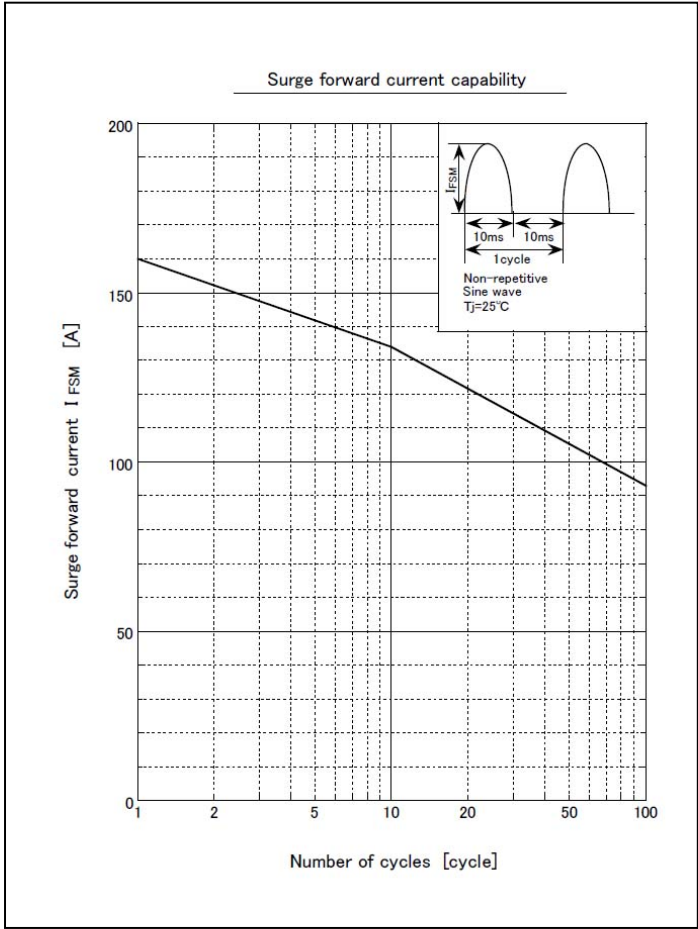


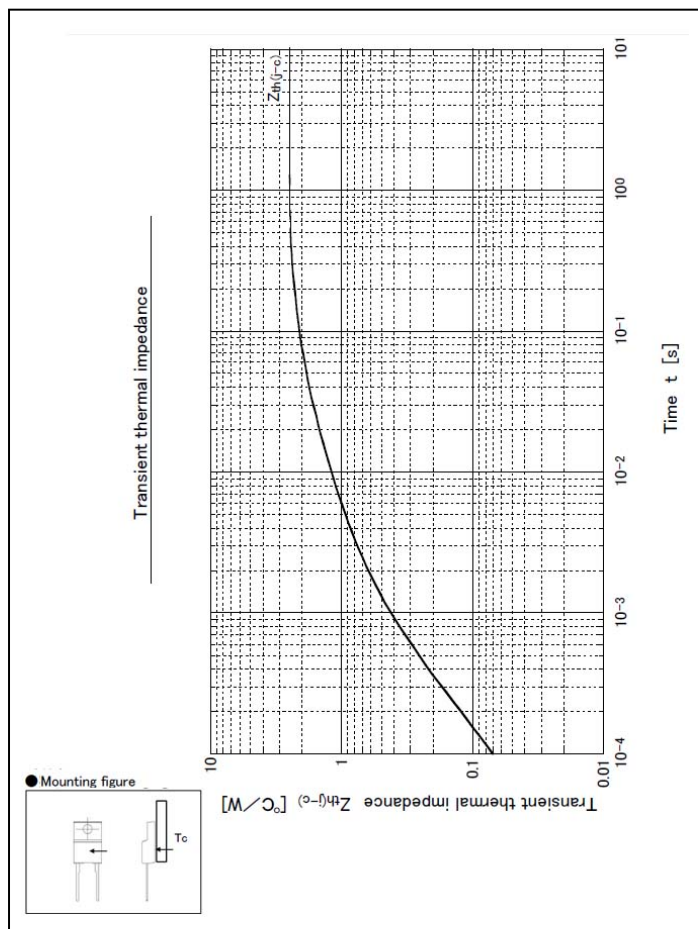
● $T_J = 150^\circ\text{C}$



● $V_R = 600\text{V}$
 R-load
 With heatsink

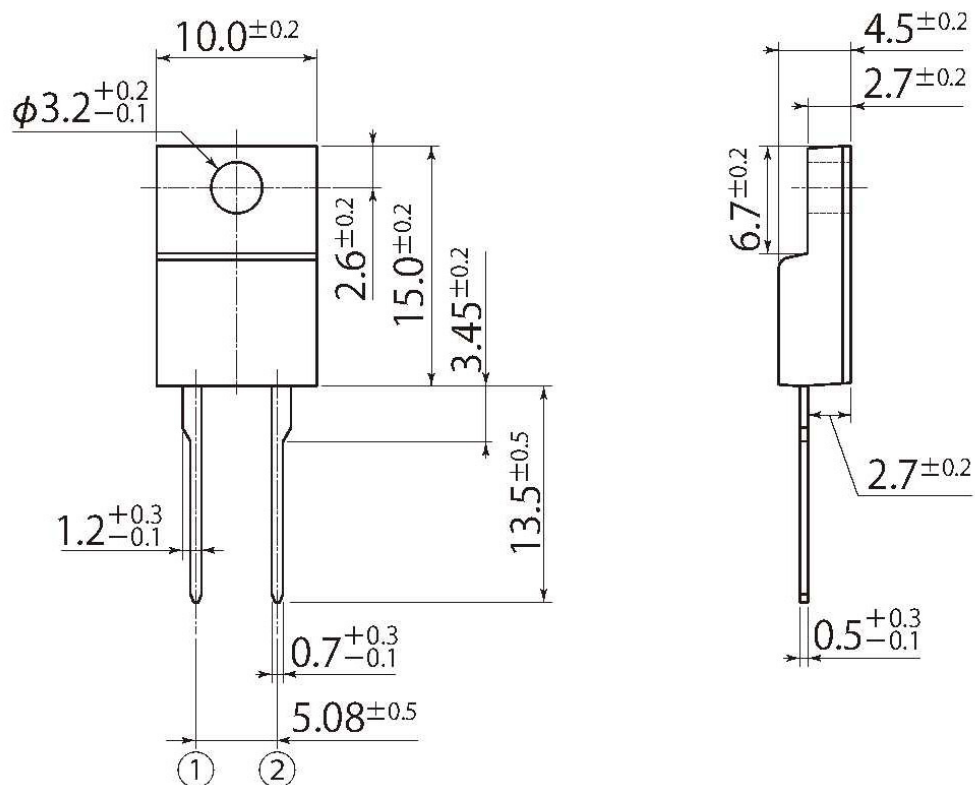






J3

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



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