

# SF10L60U

## Fast Recovery Diodes

600V, 10A

### Feature

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

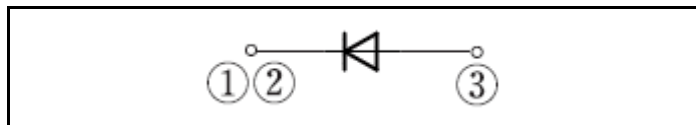
### OUTLINE

Package (House Name): FTO-220

Package (JEITA Code): SC-91A



### Equivalent circuit



### Absolute Maximum Ratings (unless otherwise specified : T<sub>c</sub>=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T <sub>stg</sub>		-55 to 150	°C
Junction temperature	T <sub>j</sub>		-55 to 150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		600	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, With heatsink, T <sub>c</sub> =85°C	10	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, T <sub>j</sub> =25°C	120	A
Dielectric strength	V <sub>dis</sub>	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 0.3N·m)	0.5	N·m

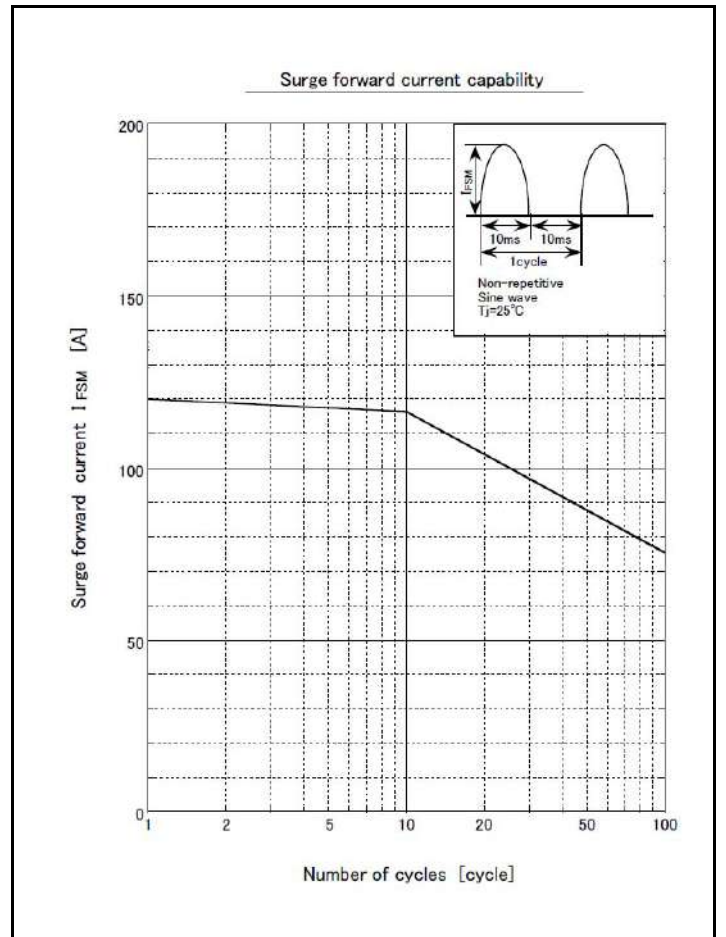
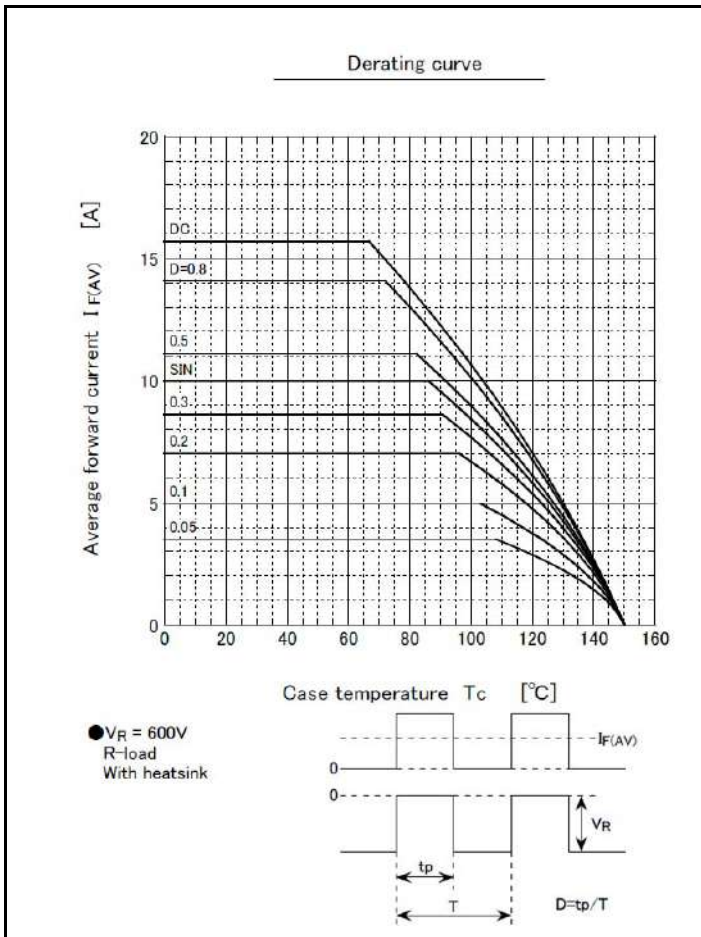
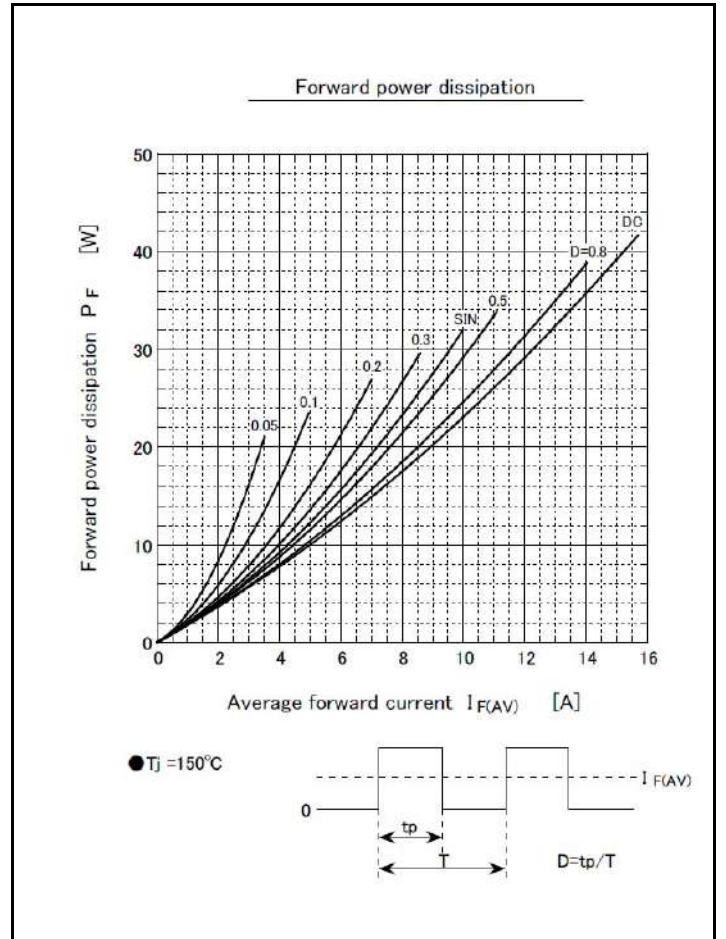
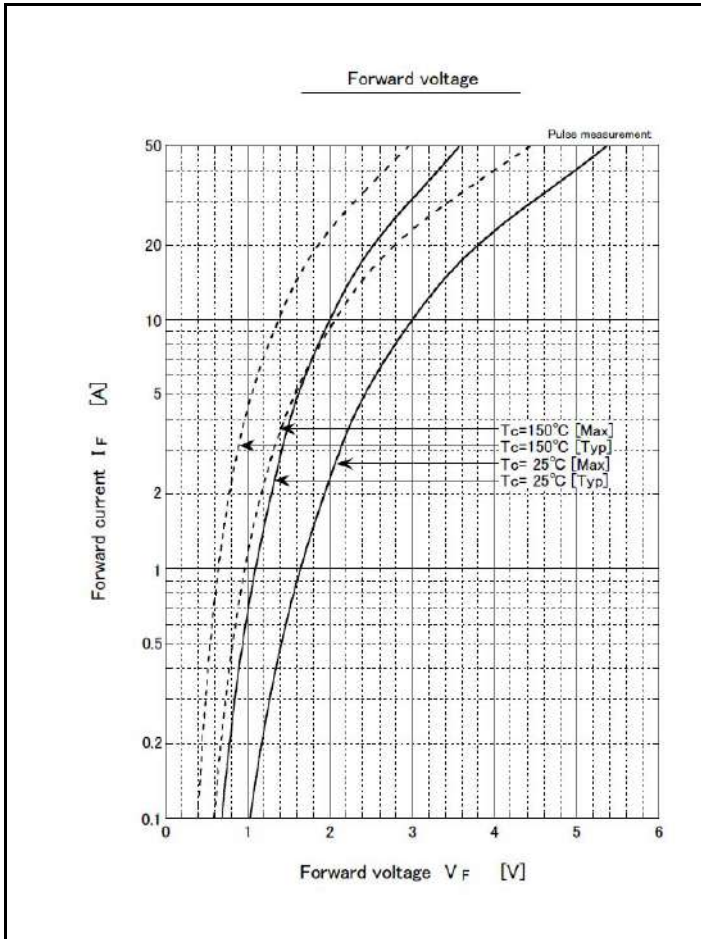
※ :See the original Specifications

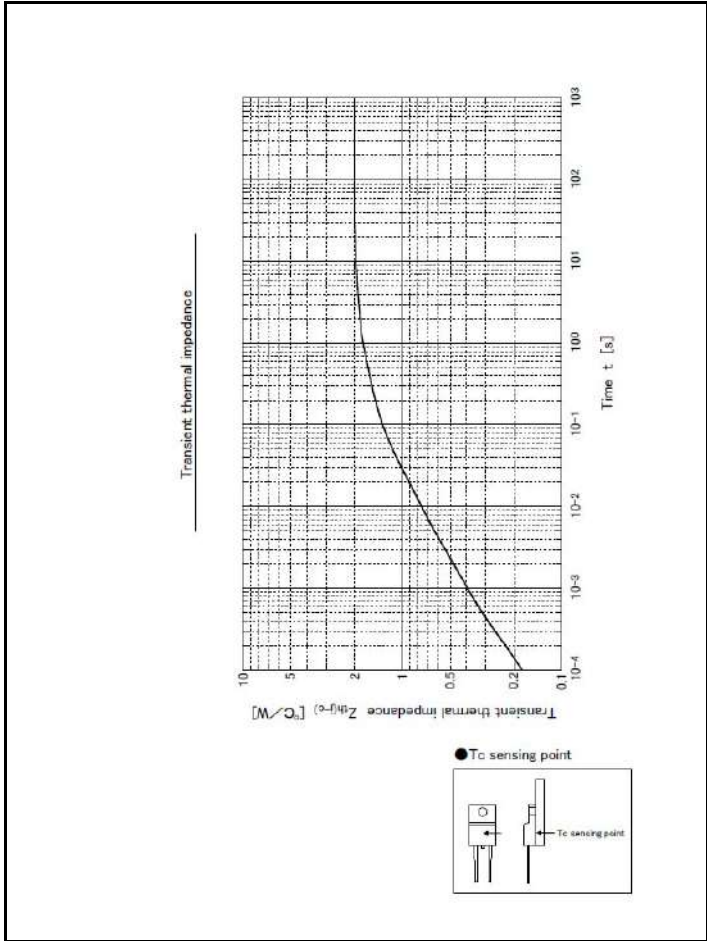
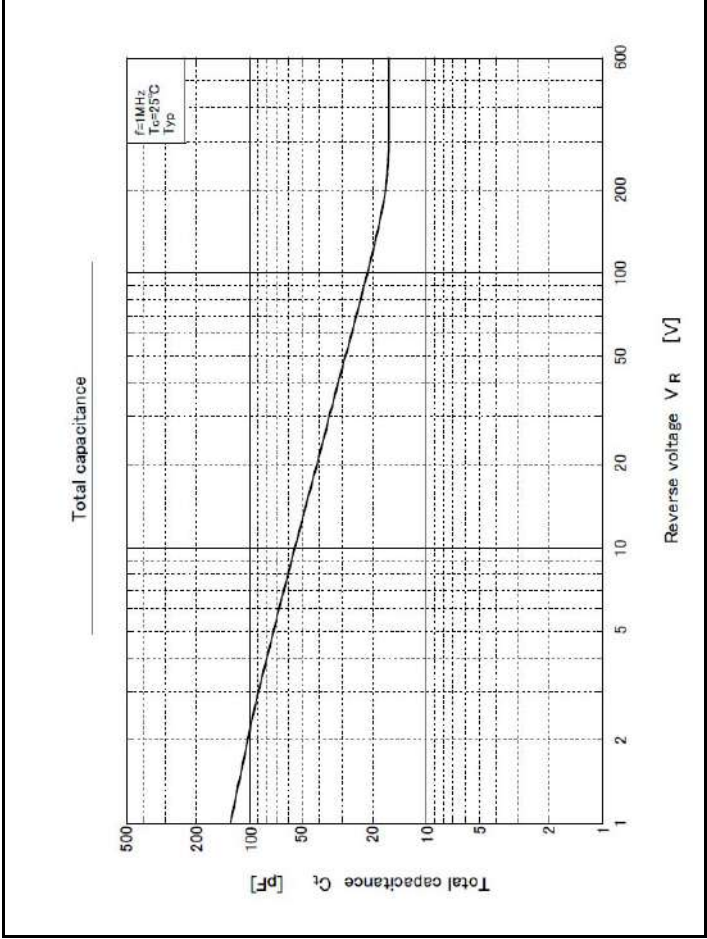
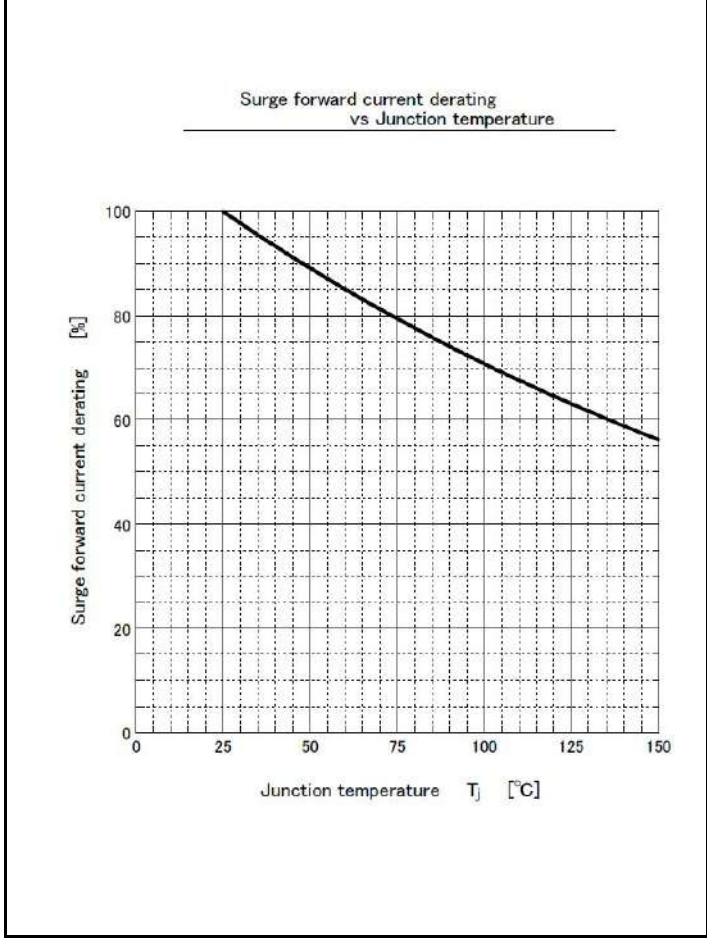
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=10A, Pulse measurement			3	V
Reverse current	$I_R$	VR=600V, Pulse measurement			25	$\mu$ A
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.1IR			25	ns
Total capacitance	Ct	f=1MHz, VR=10V		55		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			2	°C/W

\* :See the original Specifications

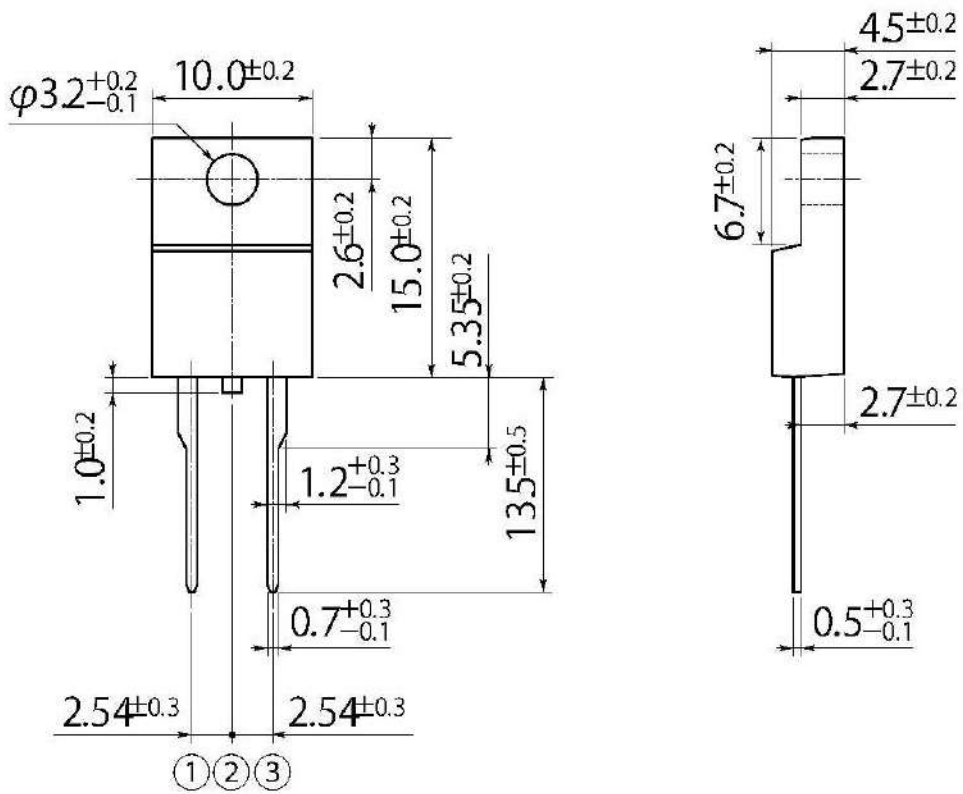
# CHARACTERISTIC DIAGRAMS





J1

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



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