

SF10L60U

Fast Recovery Diodes

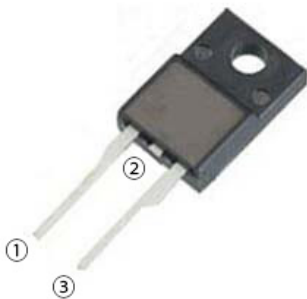
600V, 10A

Feature

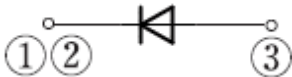
- Full Molded
- High Voltage
- Low Noise
- Dielectric Strength 2kV
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): FTO-220
Package (JEITA Code): SC-91A



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : 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, With heatsink, Tc=85°C	10	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	120	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

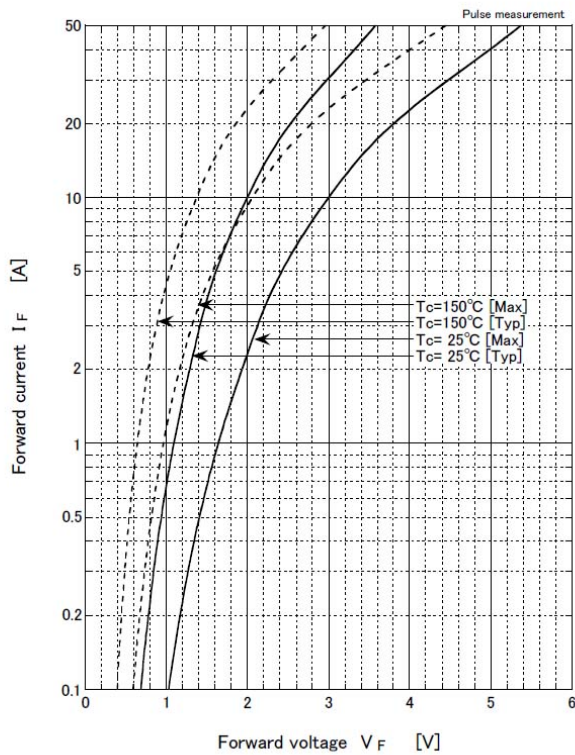
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=10A, Pulse measurement			3	V
Reverse current	I_R	VR=600V, Pulse measurement			25	μA
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

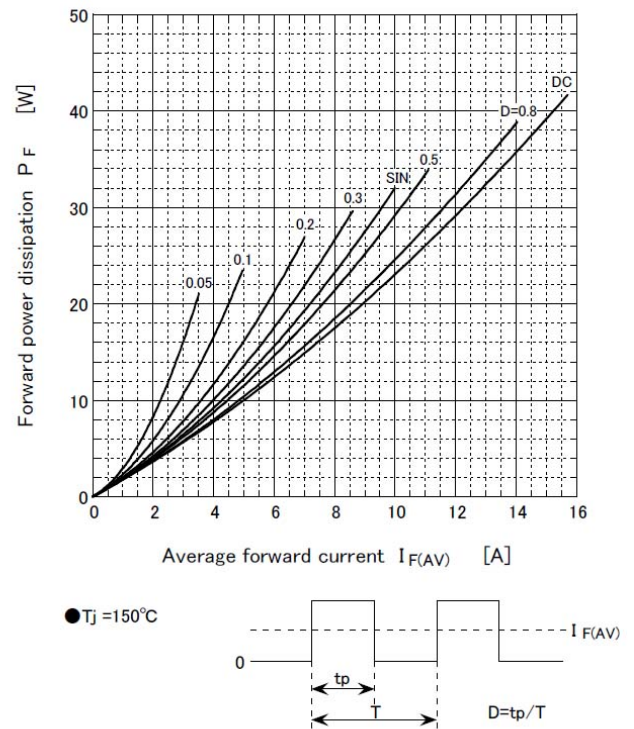
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

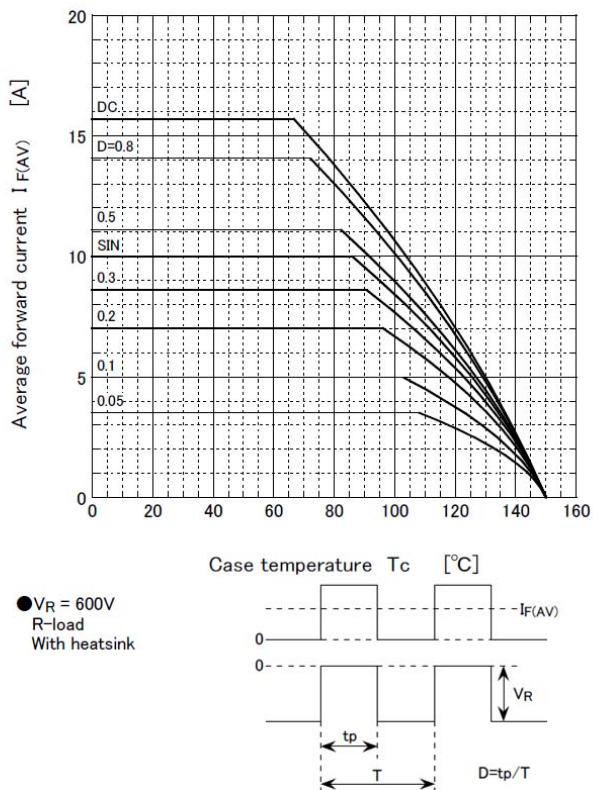
Forward voltage



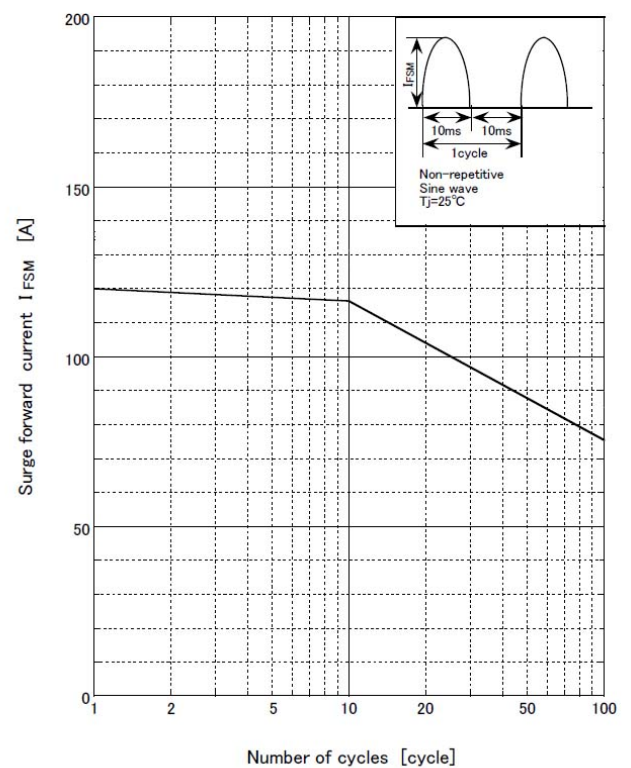
Forward power dissipation

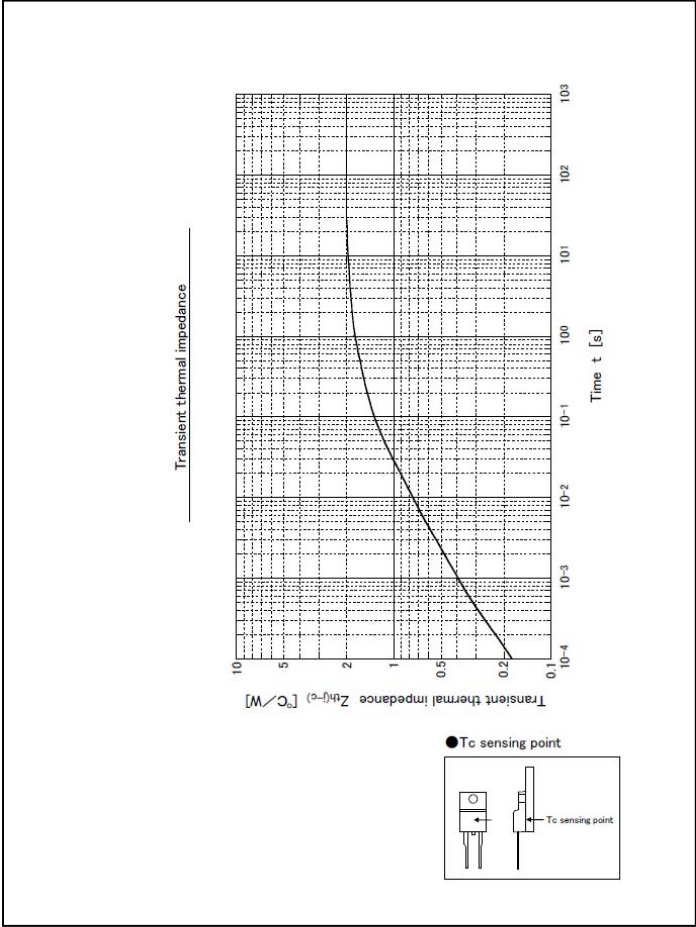
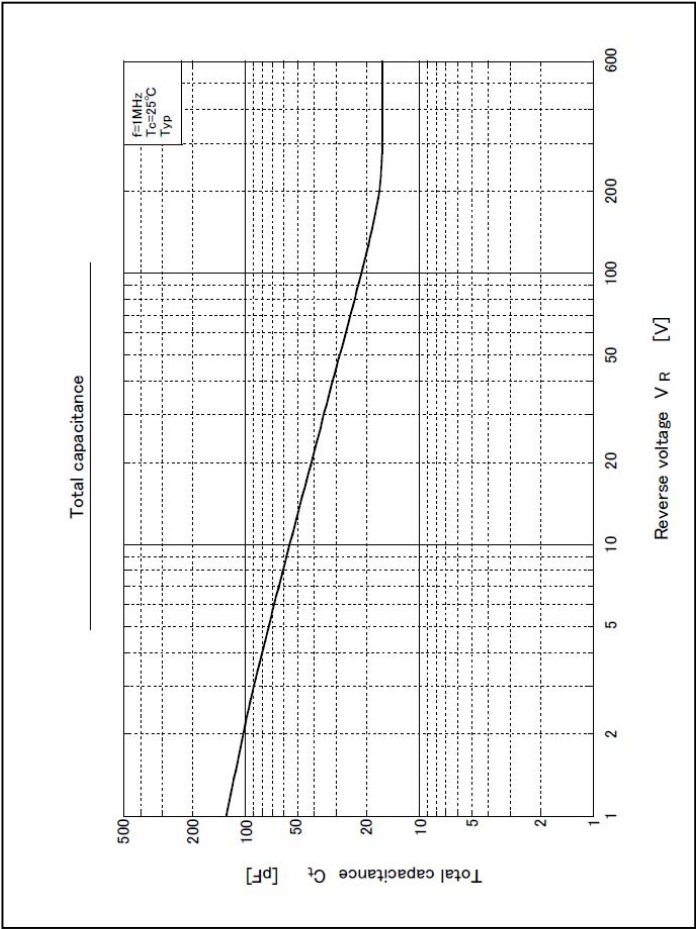
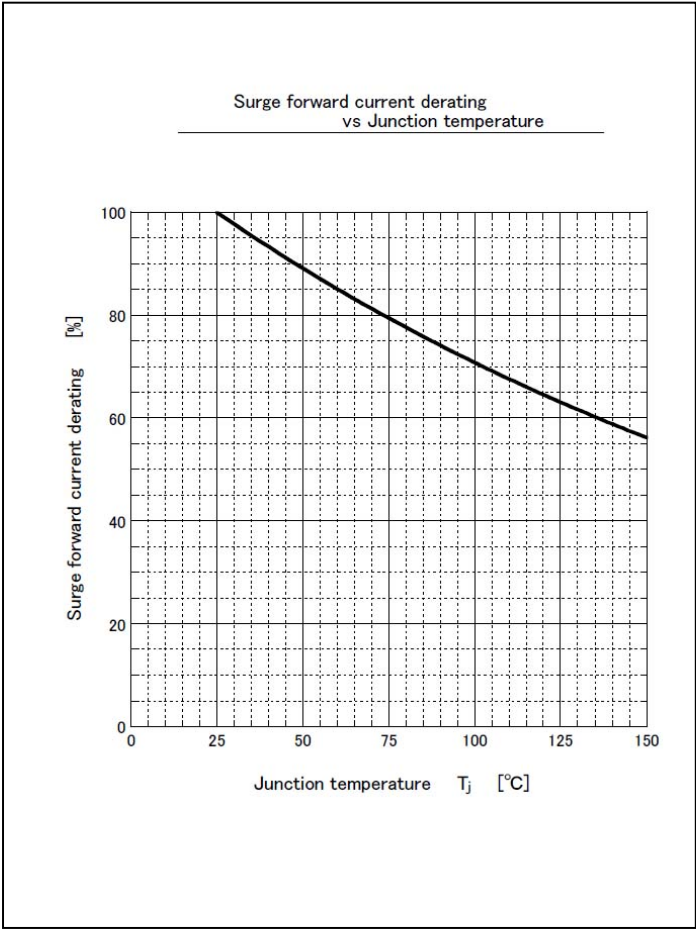


Derating curve



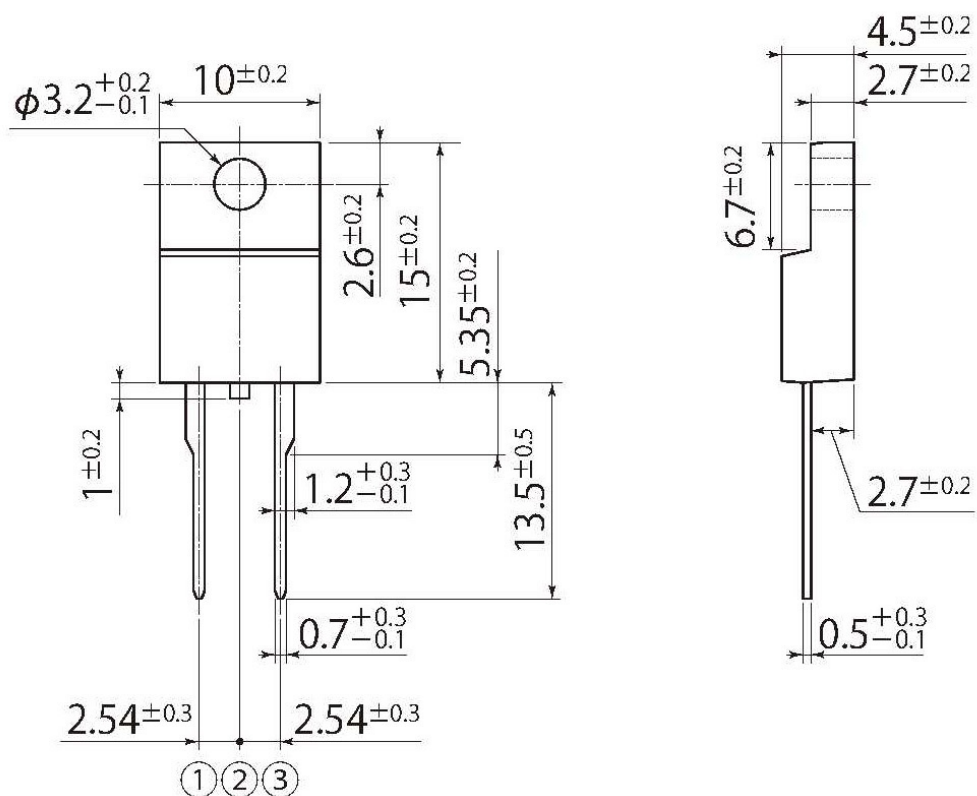
Surge forward current capability





J1

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



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