SF5K60M

Fast Recovery Diodes 600V, 5A

Feature

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

OUTLINE



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=119°C	5	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	120	А
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	379	А
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque: 0.3N·m)	0.5	N∙m

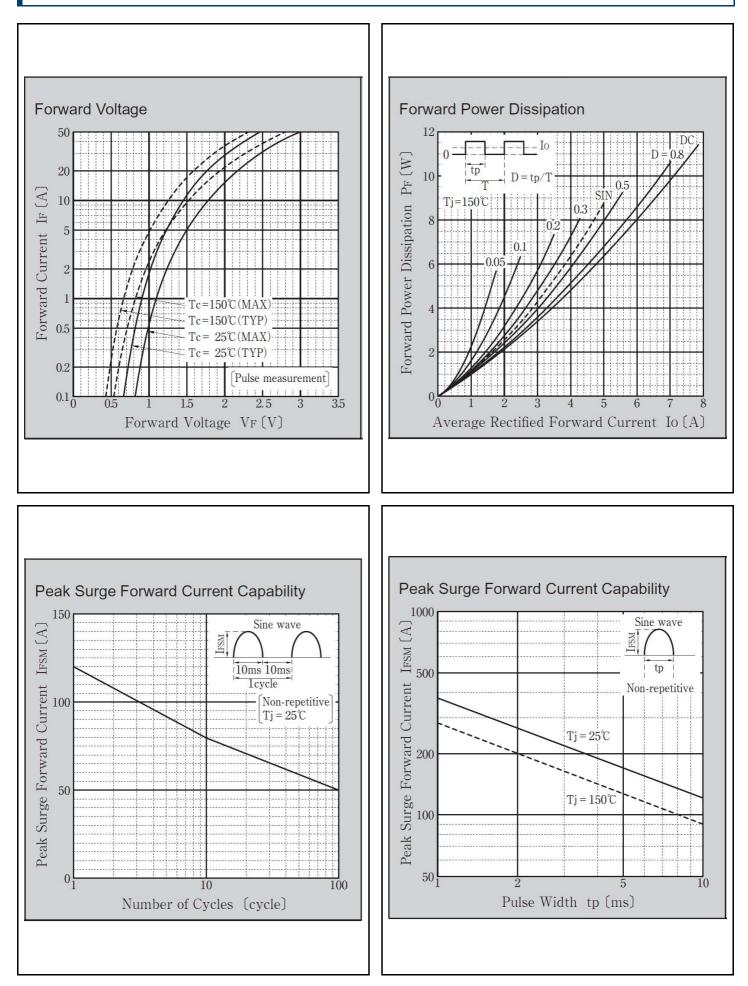
* : See the original Specifications

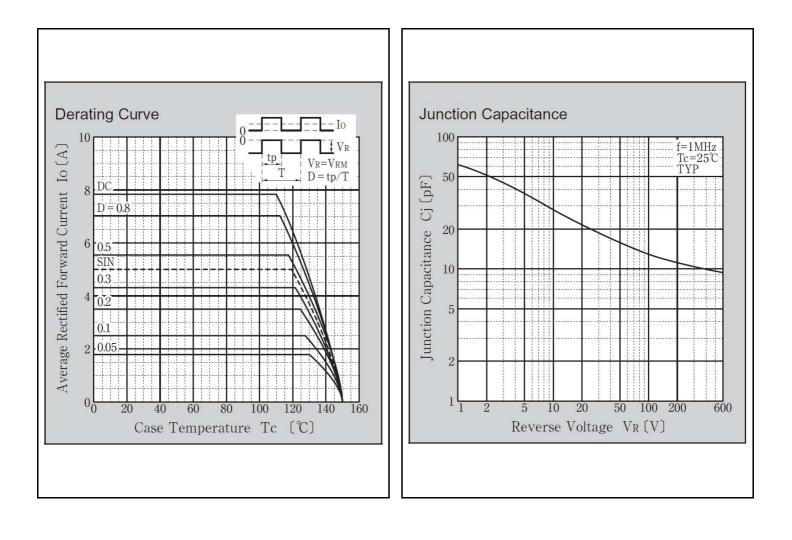
Electrical Characteristics	(unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	Onit
Forward voltage	V _F	IF=5A, Pulse measurement		1.23	1.5	V
Forward voltage	V _F	IF=0.5A, 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			85	ns
Reverse recovery time	trr	IF=1.0A, VR=30V, di/dt=-50A/µs, 0.25IR			68	ns
Reverse recovery time	trr	IF=1.0A, VR=420V, di/dt=-50A/µs, 0.25IR			78	ns
Total capacitance	Ct	f=1MHz, VR=10V		28		pF
Thermal resistance	Rth(j-c)	Junction to case			3.5	°C/W

*:See the original Specifications

CHARACTERISTIC DIAGRAMS

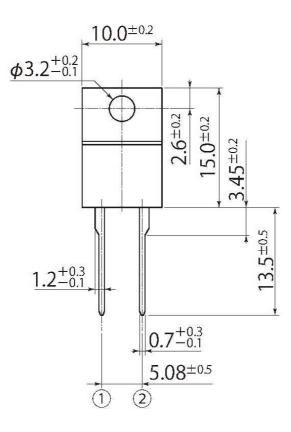


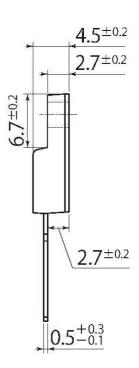


unit:mm

J3

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





Notes

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Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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