

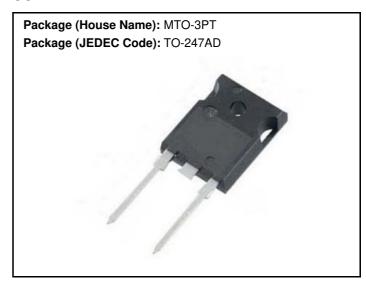
S20K60T

Fast Recovery Diodes 600V, 20A

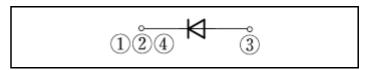
Feature

- High Voltage
- Low Noise
- · 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=121°C	20	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	300	Α
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, Peak value, Tj=25°C	890	Α
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N∙m

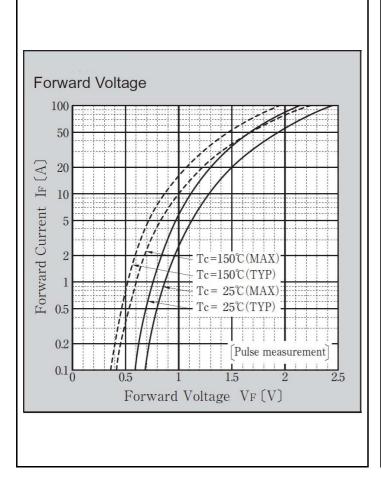
^{* :} See the original Specifications

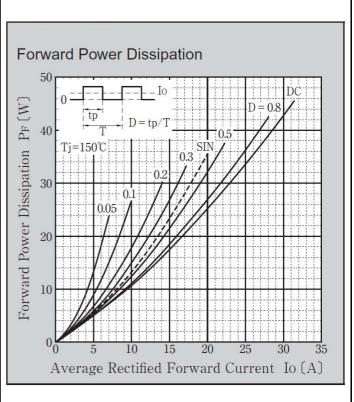
Electrical Characteristics (unless otherwise specified : Tc=25°C)

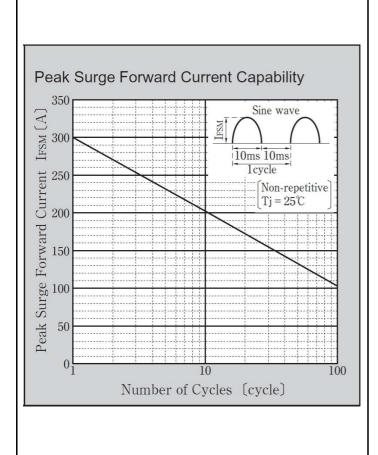
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onne
Forward voltage	V _F	IF=20A, Pulse measurement		1.3	1.5	V
Forward voltage	V _F	IF=2A, Pulse measurement		0.83		V
Reverse current	I _R	VR=600V, Pulse measurement			10	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			95	ns
Reverse recovery time	trr	IF=1.0A, VR=30V, di/dt=-50A/μs, 0.25IR			72	ns
Reverse recovery time	trr	IF=1.0A, VR=420V, di/dt=-50A/μs, 0.25IR			84	ns
Total capacitance	Ct	f=1MHz, VR=10V		105		pF
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			8.0	°C/W

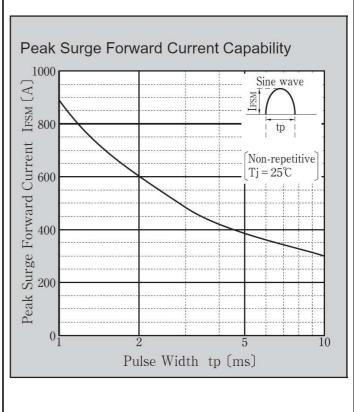
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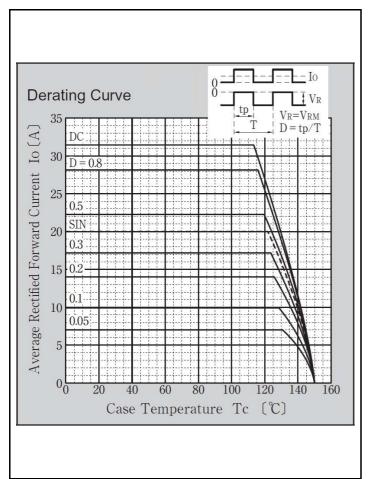
CHARACTERISTIC DIAGRAMS

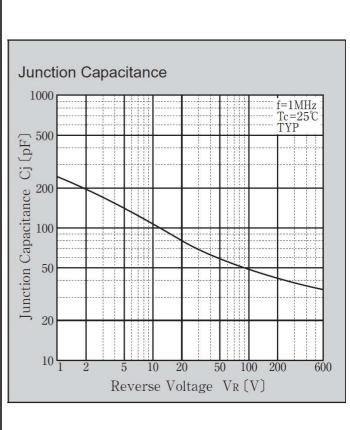


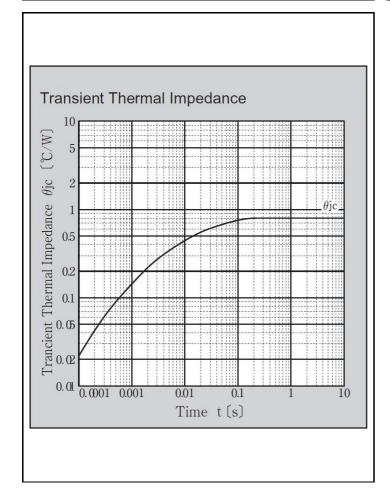










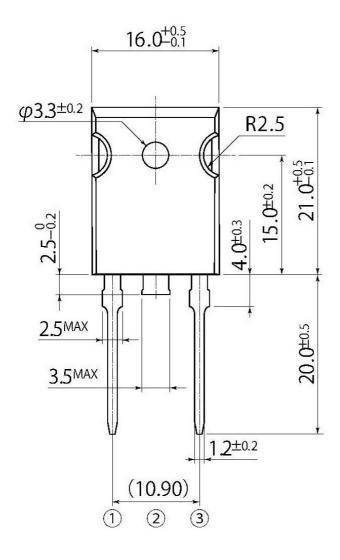


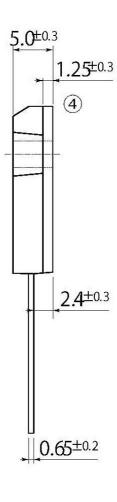
unit:mm

scale: 2/1

K2

JEDEC Code	TO-247AD		
JEITA Code	-		
House Name	MTO-3PT(2pin)		





Notes

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(Special applications)

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