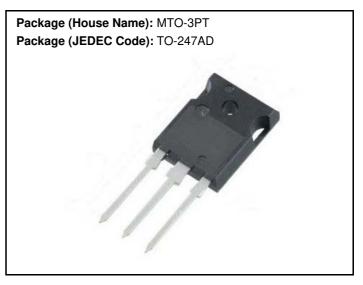
# S20LC60UST

Fast Recovery Diodes 600V, 20A

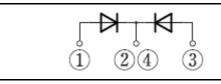
## Feature

- High Voltage
- Low Noise
- · Pb free terminal
- RoHS:Yes

#### OUTLINE



## Equivalent circuit



## Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

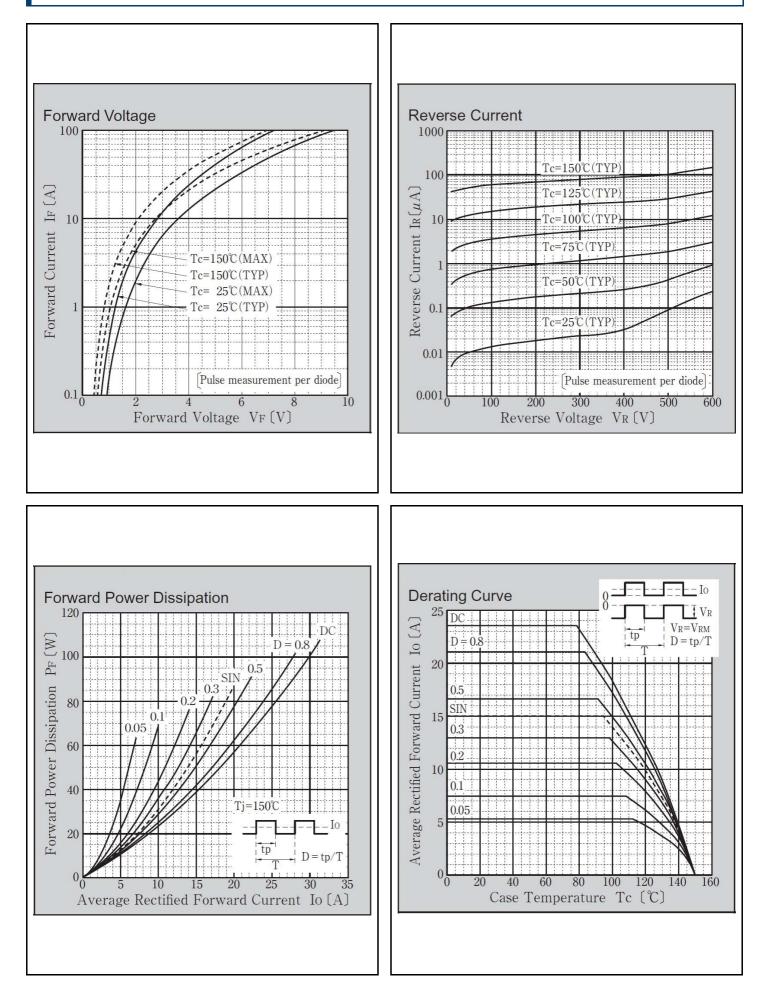
ltem	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		600	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=63°C	20	A
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=94°C	15	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	А
Surge forward current	I <sub>FSM1</sub>	tp=1ms, Sine wave, Non-repetitive, 1 cycle, Peak value, Tj=25°C		A
Mounting torque	TOR	(Recommended torque: 0.5N·m)	0.8	N∙m

\* : See the original Specifications

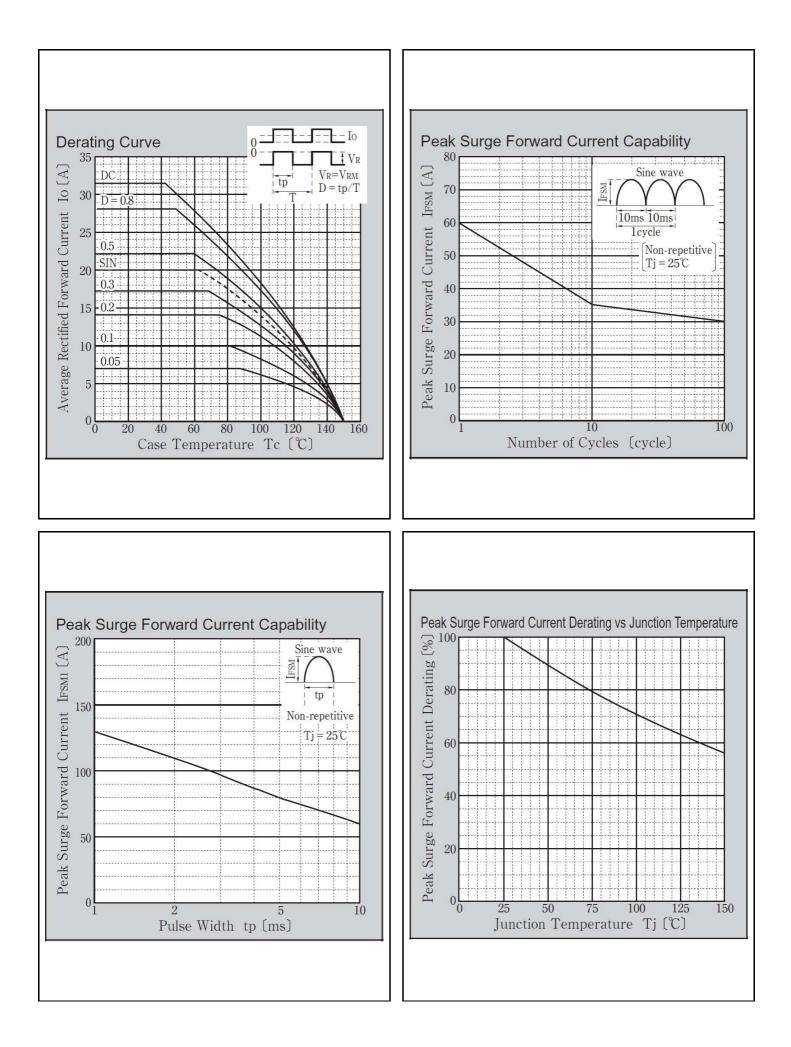
Item	Symbol	Conditions		Ratings		
	Symbol		MIN	ТҮР	MAX	Unit
Forward voltage	V <sub>F</sub>	IF=10A, Pulse measurement, Per diode		2.8	3.6	V
Reverse current	I <sub>R</sub>	VR=600V, Pulse measurement, Per diode			50	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, Per Diode			25	ns
Total capacitance	Ct	f=1MHz, VR=10V, Per diode		24		pF
Thermal resistance	Rth(j-c)	Junction to case			1	°C/W

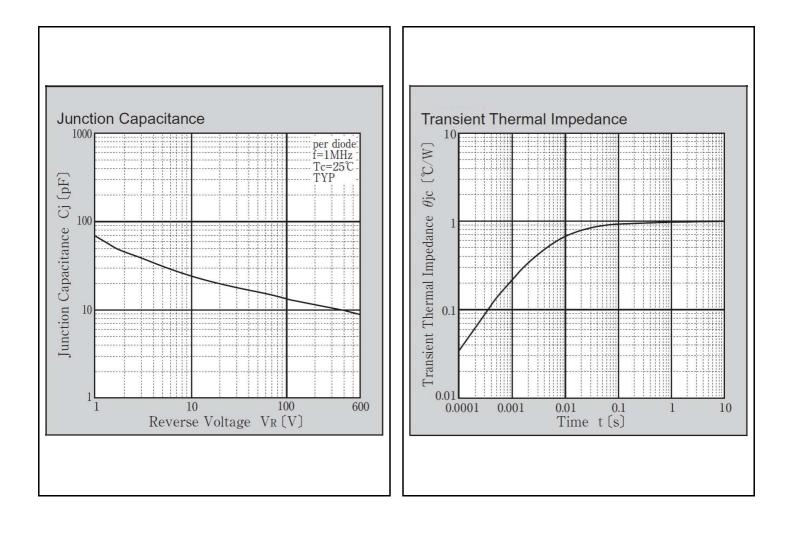
\*:See the original Specifications

# CHARACTERISTIC DIAGRAMS



3/7

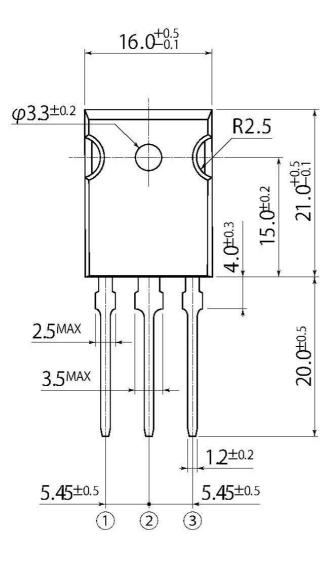


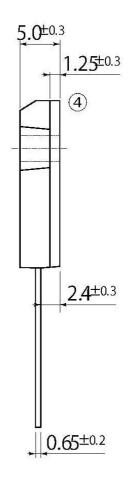


unit:mm

scale: 2/1

K5	JEDEC Code	TO-247AD		
	JEITA Code			
	House Name	MTO-3PT(3pin)		





## Notes

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### [Special applications]

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#### [Specific applications]

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