# S20LC30T

Fast Recovery Diodes 300V, 20A

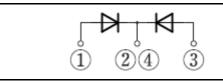
## Feature

- High Recovery Speed
- Pb free terminal
- RoHS:Yes

## OUTLINE



## **Equivalent circuit**



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

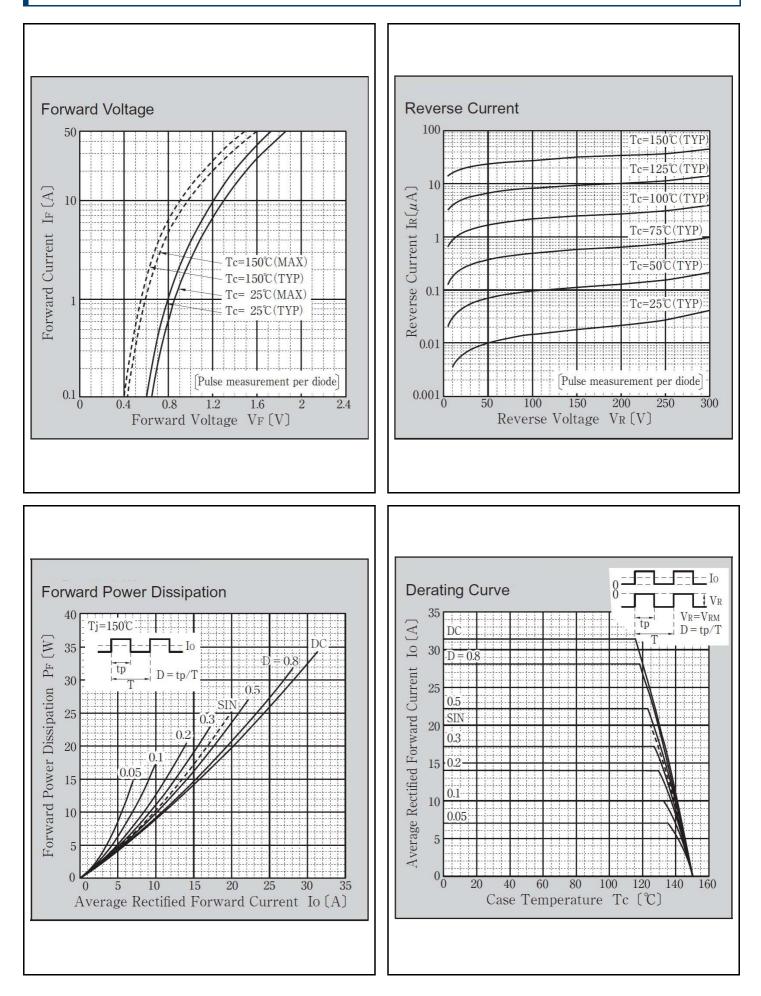
Item Symbol		Conditions	Ratings	Unit	
Storage temperrature	Tstg		-55 to 150	°C	
Junction temperature	Tj		150	°C	
Repetitive peak reverse voltage	V <sub>RRM</sub>		300	V	
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=124°C	20	A	
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	220	A	
Surge forward current	I <sub>FSM1</sub>	tp=1ms, Sine wave, Non-repetitive, 1 cycle, Peak value, Tj=25°C	440	A	
Mounting torque	TOR	(Recommended torque: 0.5N·m)	0.8	N∙m	

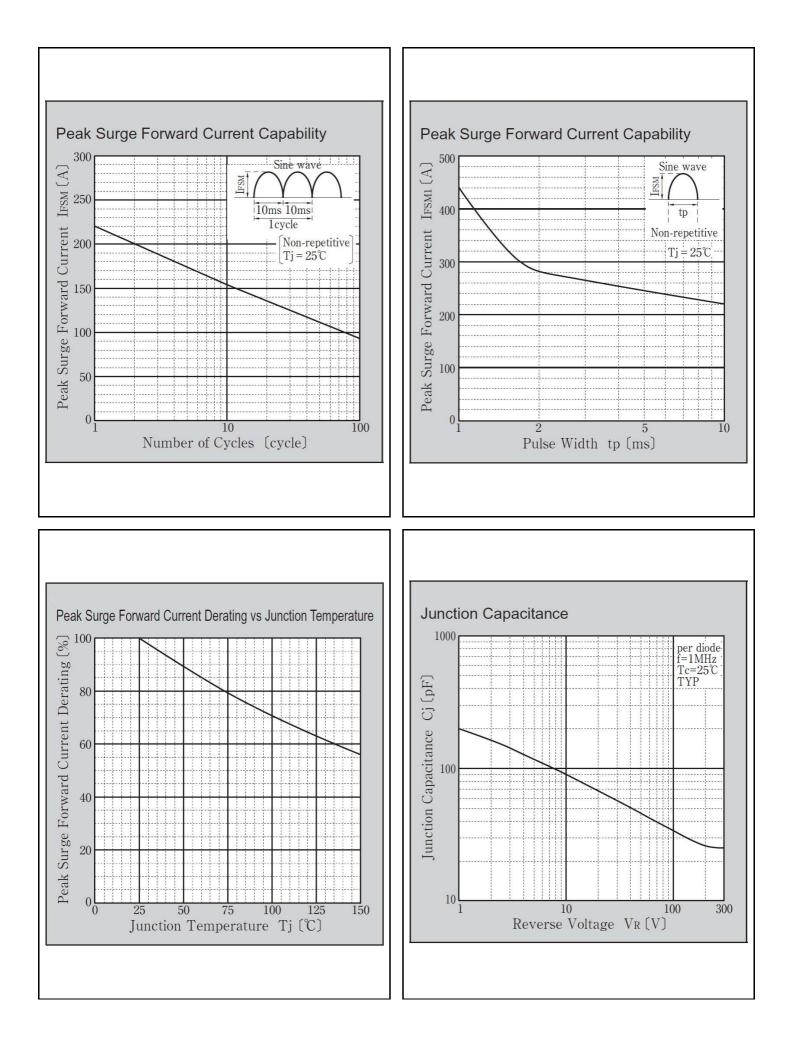
\* : See the original Specifications

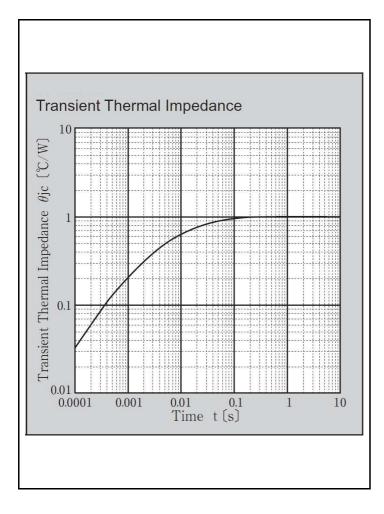
Item	Symbol	Conditions		Ratings		
	Gymbol		MIN	ТҮР	MAX	Unit
Forward voltage	V <sub>F</sub>	IF=10A, Pulse measurement, Per diode		1.21	1.3	V
Reverse current	I <sub>R</sub>	VR=300V, Pulse measurement, Per diode			25	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR, Per Diode			30	ns
Total capacitance	Ct	f=1MHz, VR=10V, Per diode		90		pF
Thermal resistance	Rth(j-c)	Junction to case			1	°C/W

\*:See the original Specifications

# **CHARACTERISTIC DIAGRAMS**



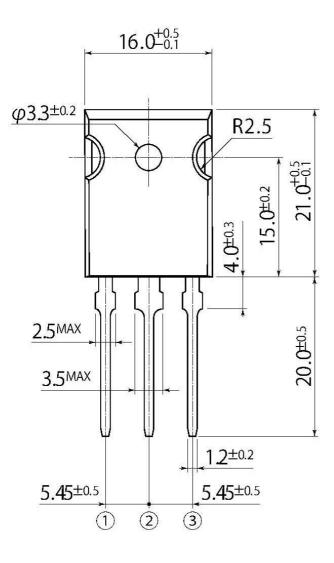


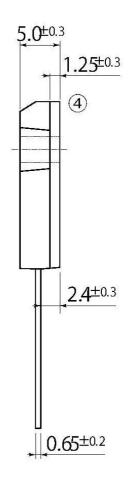


unit:mm

scale: 2/1

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





## Notes

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