

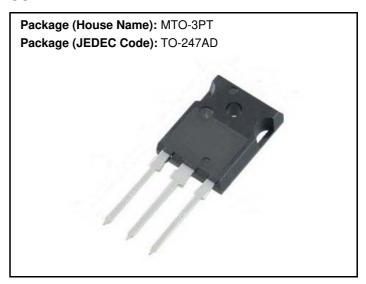
S20LC30T

Fast Recovery Diodes 300V, 20A

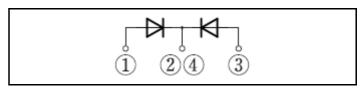
Feature

- 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_{RRM}		300	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=124°C	20	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	220	Α
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, 1 cycle, Peak value, Tj=25°C	440	А
Mounting torque	TOR	(Recommended torque : 0.5N⋅m)	0.8	N∙m

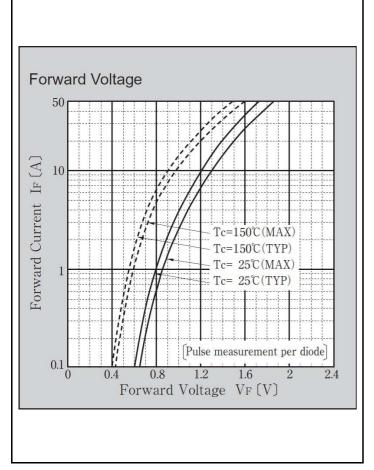
^{* :} See the original Specifications

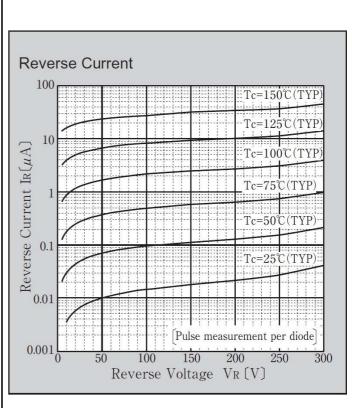
Electrical Characteristics (unless otherwise specified : Tc=25°C)

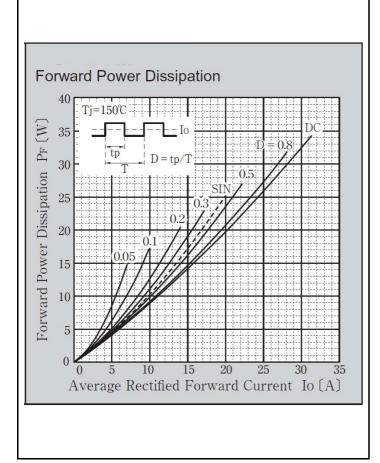
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O mit
Forward voltage	V _F	IF=10A, Pulse measurement, Per diode		1.21	1.3	V
Reverse current	I _R	VR=300V, Pulse measurement, Per diode			25	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR, Per Diode			30	ns
Total capacitance	Ct	f=1MHz, VR=10V,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

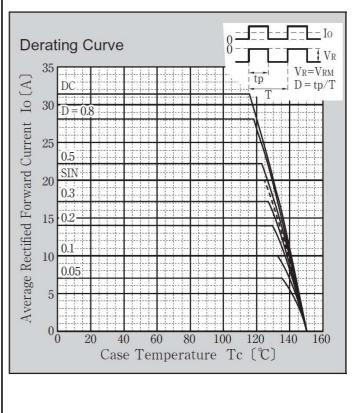
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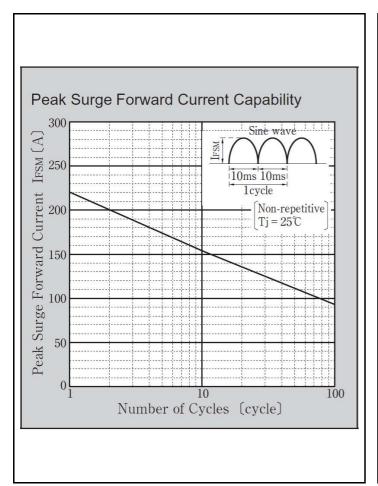
CHARACTERISTIC DIAGRAMS

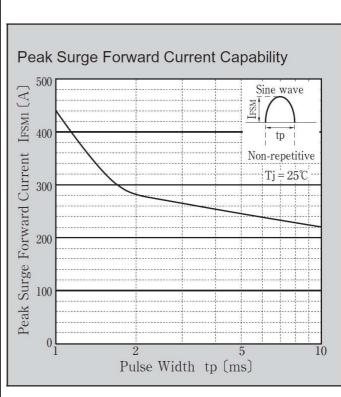


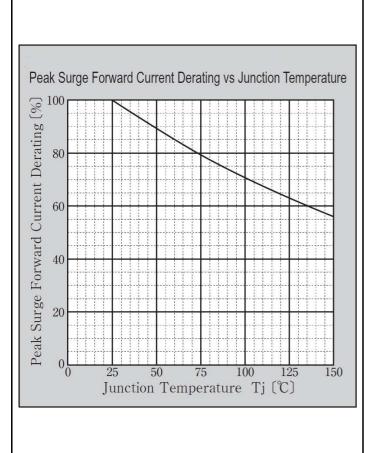


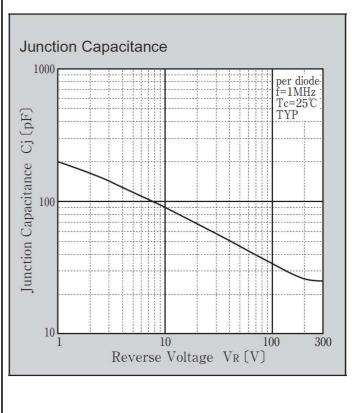


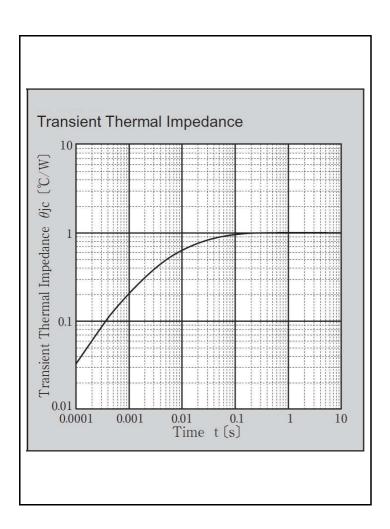








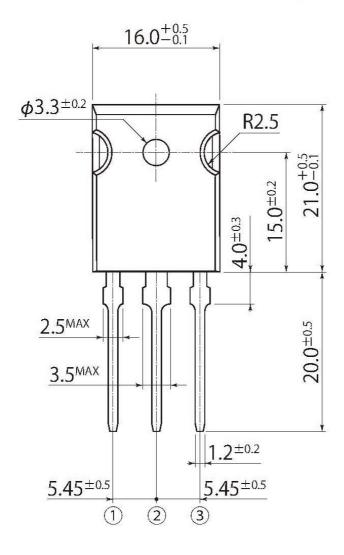


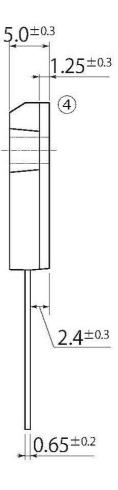


unit:mm

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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