

S20LC60UST

Fast Recovery Diodes 600V, 20A

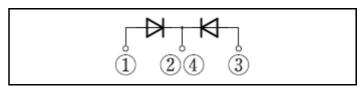
Feature

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

OUTLINE



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V_{RRM}		600	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=63°C	20	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Rating for each diode IF(AV)/2, Tc=94°C	15	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	Α
Surge forward current	I _{FSM1}	tp=1ms, Sine wave, Non-repetitive, 1 cycle, Peak value, Tj=25°C	130	Α
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N∙m

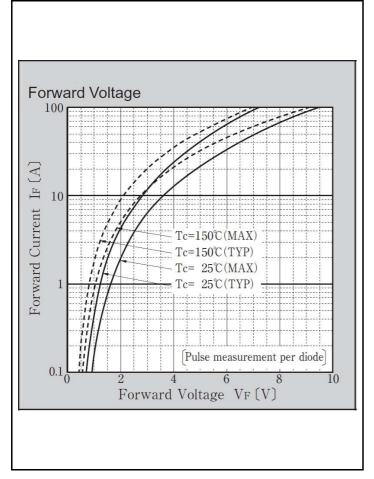
st :See the original Specifications

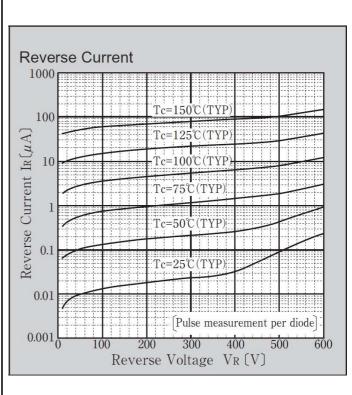
Electrical Characteristics (unless otherwise specified : Tc=25°C)

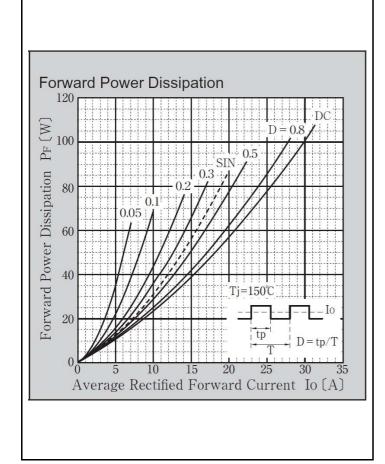
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	O mit
Forward voltage	V _F	IF=10A, Pulse measurement, Per diode		2.8	3.6	V
Reverse current	I _R	VR=600V, Pulse measurement, Per diode			50	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A, Per Diode			25	ns
Total capacitance	Ct	f=1MHz, VR=10V, Per diode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

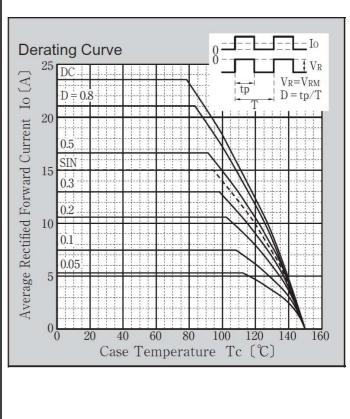
^{*} :See the original Specifications

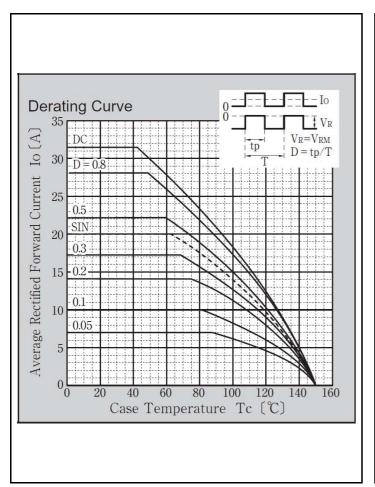
CHARACTERISTIC DIAGRAMS

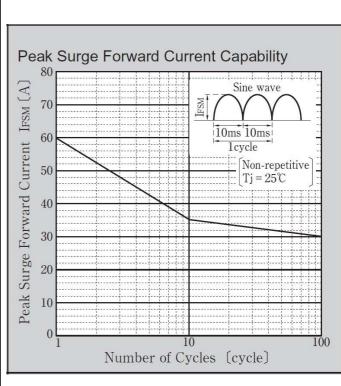


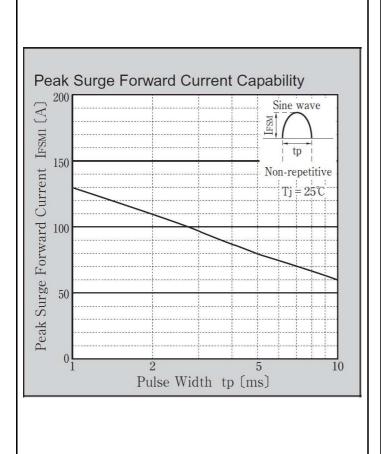


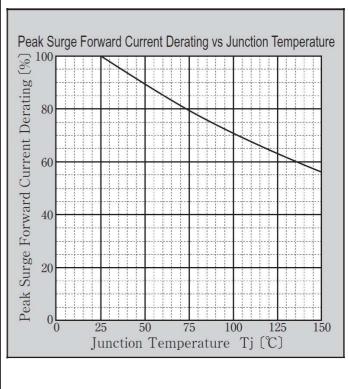


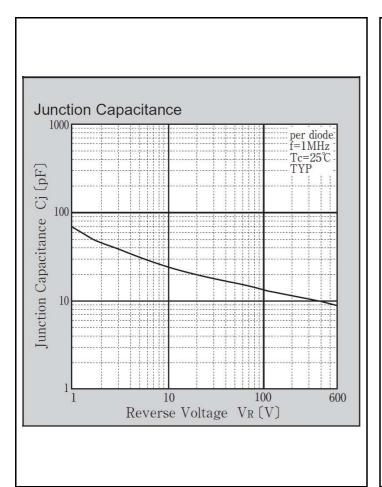


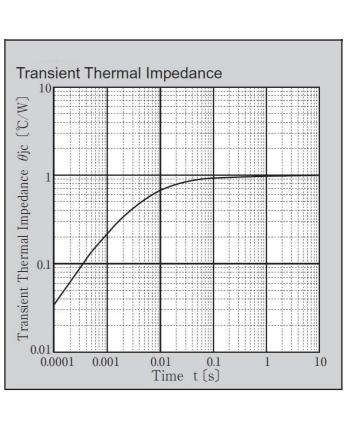








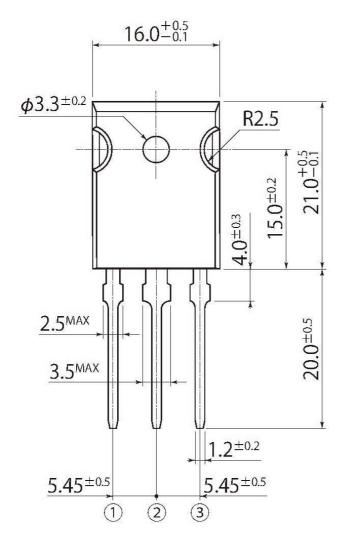


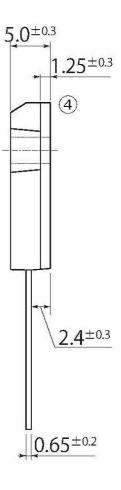


unit:mm

K5

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





Notes

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