

S20LC20UST

Fast Recovery Diodes

200V, 20A

Feature

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

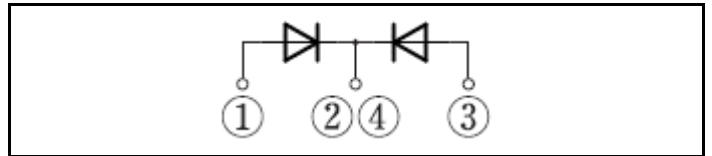
OUTLINE

Package (House Name): MTO-3PT

Package (JEDEC Code): TO-247AD



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-55 to 150	°C
Junction temperature	T _j		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		200	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Rating for each diode I _{F(AV)} /2, With heatsink, T _c =126°C	20	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, T _j =25°C	120	A
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

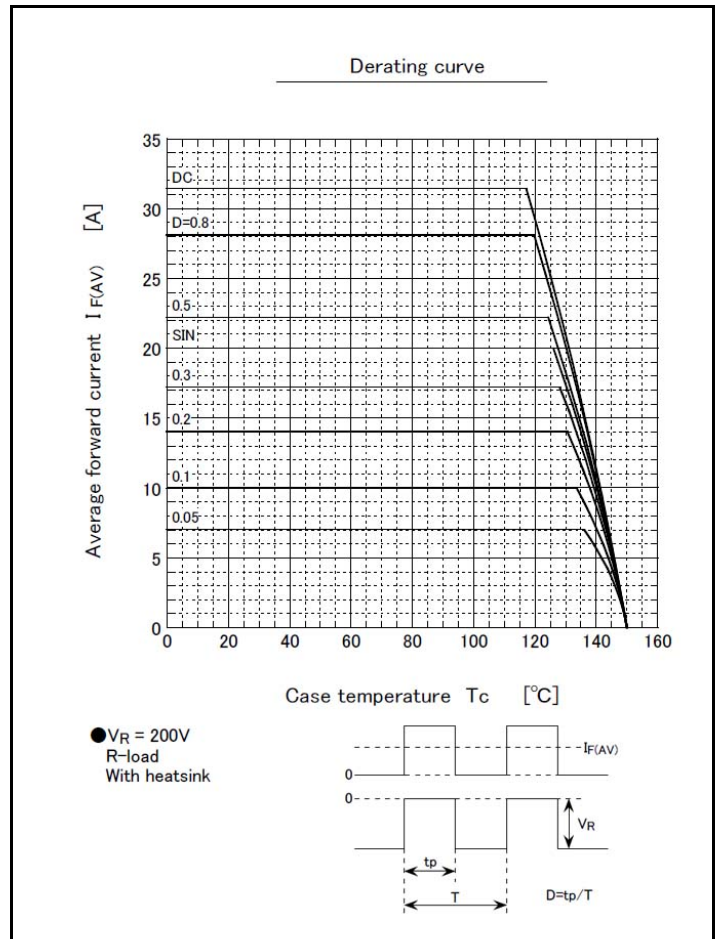
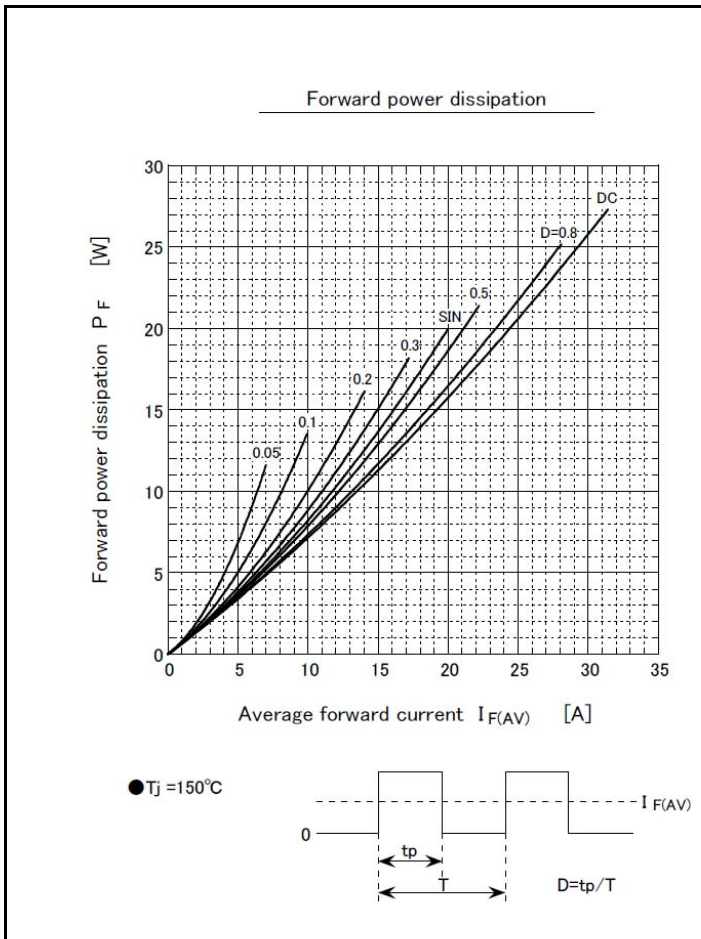
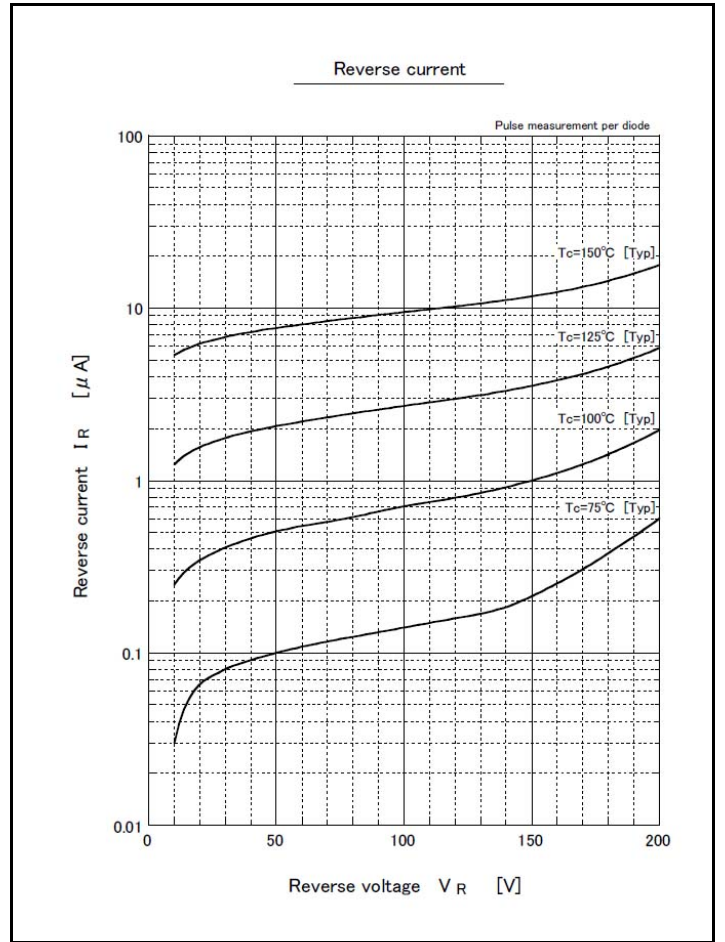
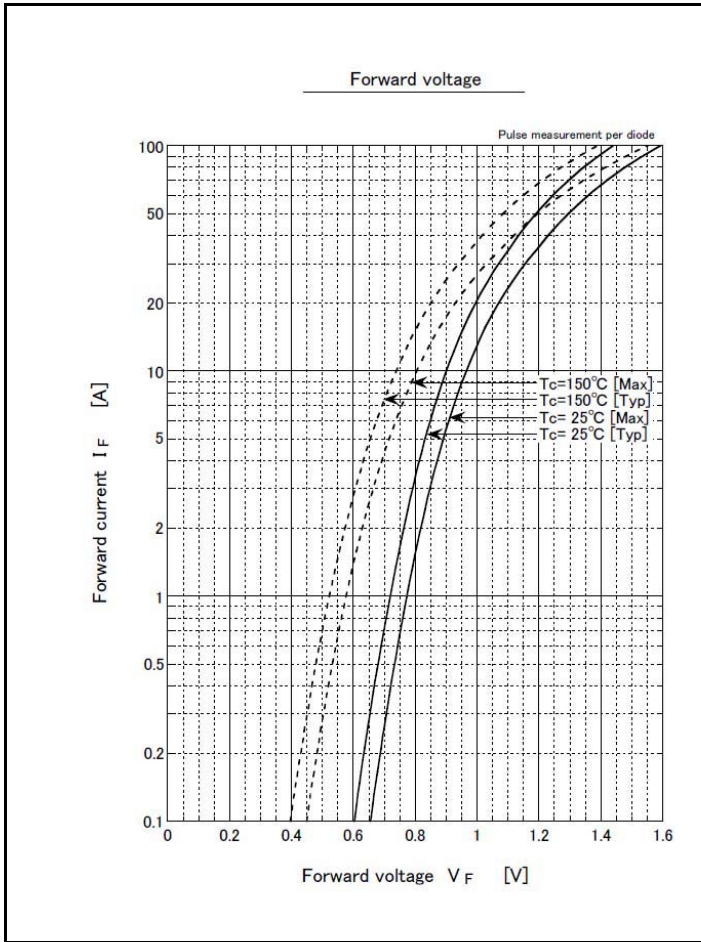
* :See the original Specifications

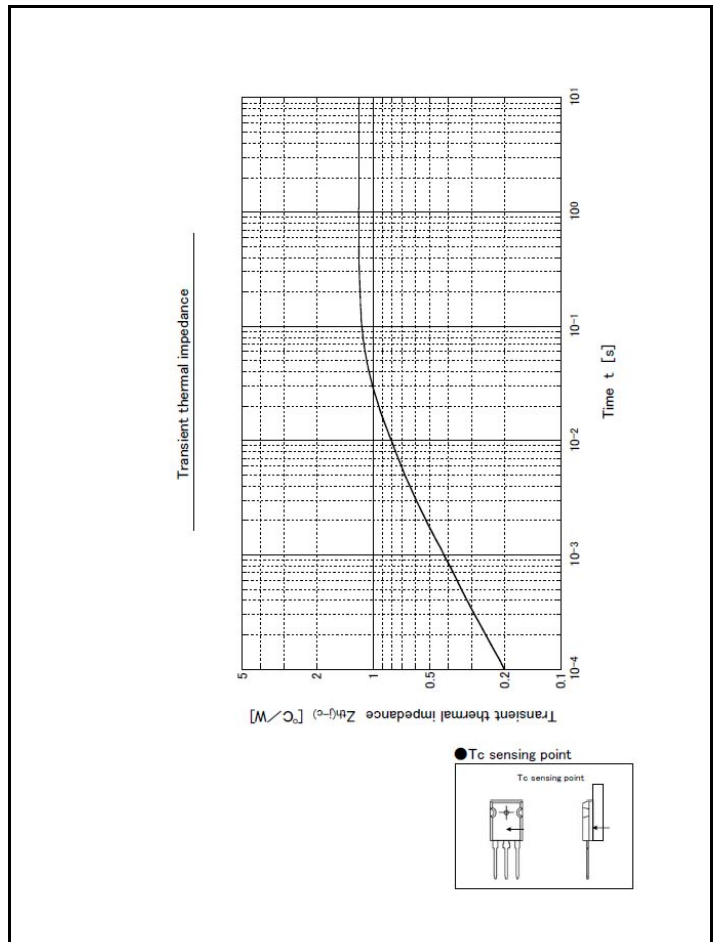
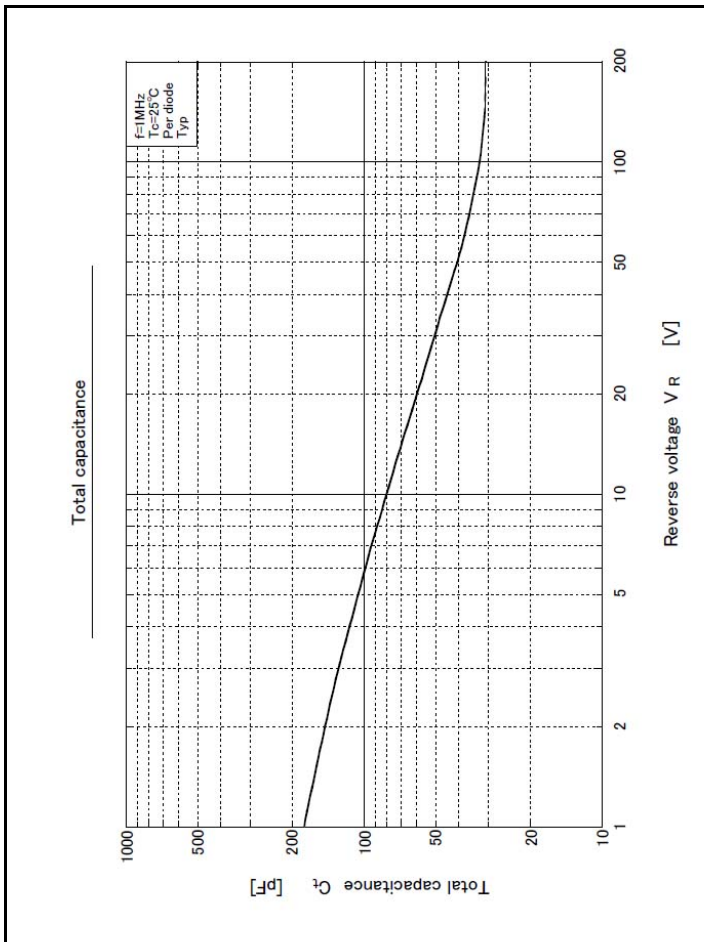
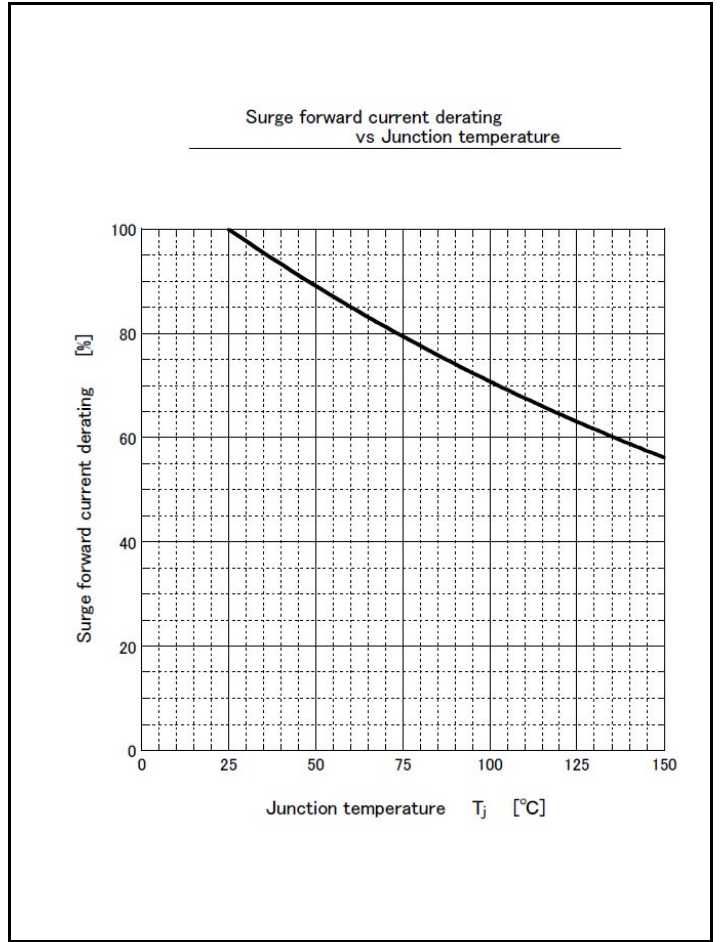
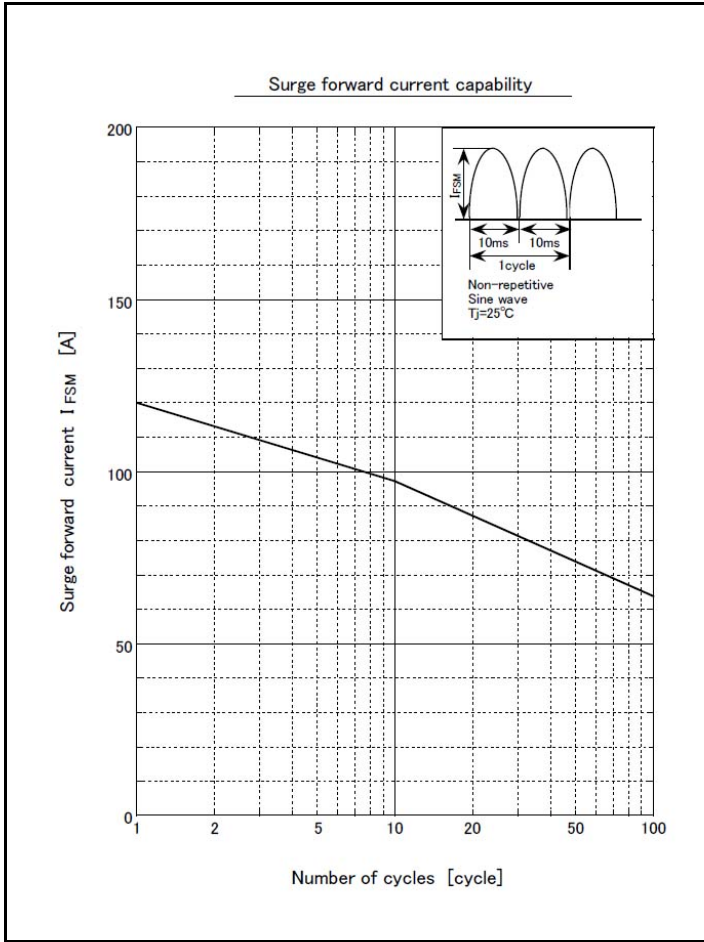
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =10A, Pulse measurement, Per diode			0.96	V
Reverse current	I _R	V _R =200V, Pulse measurement, Per diode			10	μA
Reverse recovery time	t _{rr}	I _F =0.5A, I _R =1.0A, 0.25I _R , Per Diode			25	ns
Total capacitance	C _t	f=1MHz, V _R =10V, Per diode		80		pF
Thermal resistance	R _{th(j-c)}	Junction to case, With heatsink			1.2	°C/W

* :See the original Specifications

CHARACTERISTIC DIAGRAMS





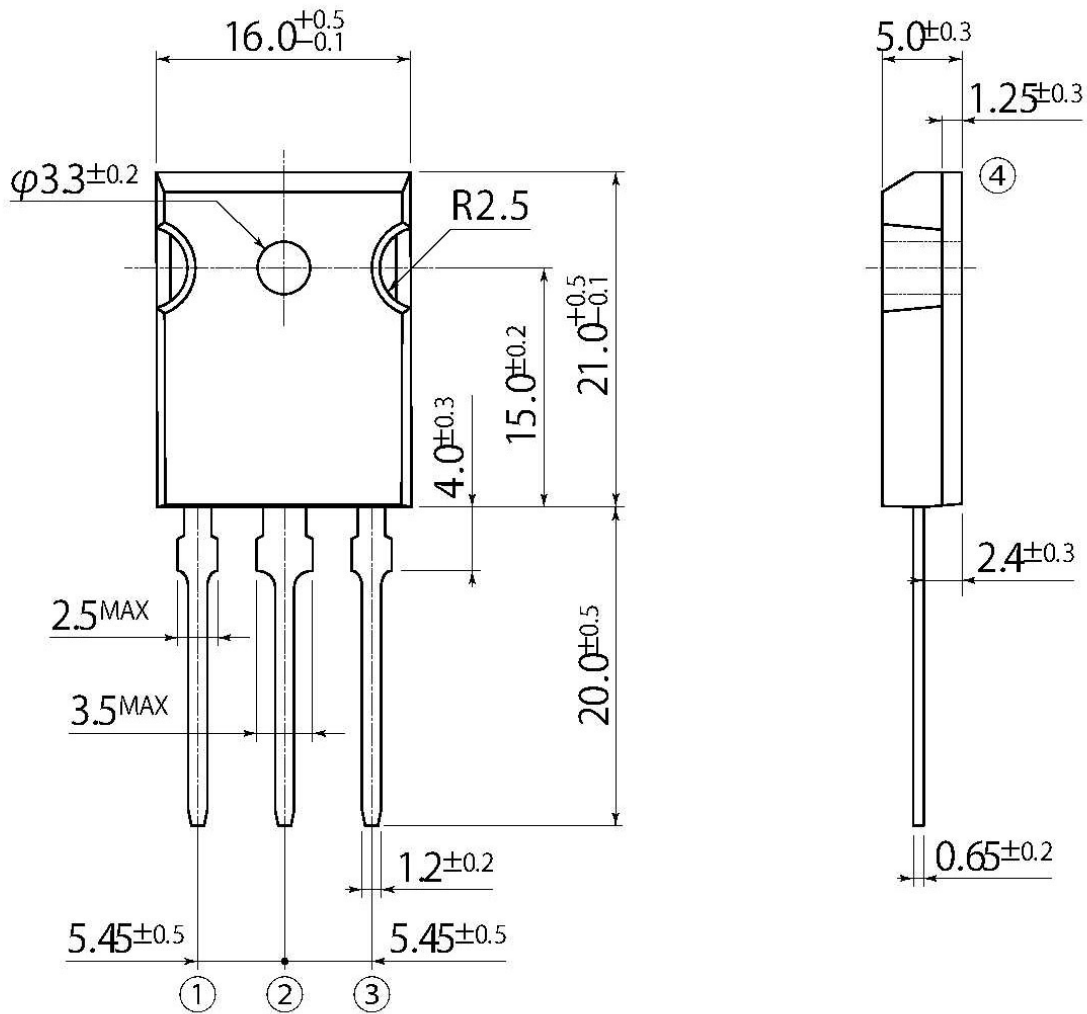
Outline Dimensions

unit:mm

scale: 2/1

K5

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



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