

# S2L20U

## Fast Recovery Diodes

200V, 1.5A

### Feature

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

### OUTLINE

Package (House Name): AX10



### Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-40 to 150	°C
Junction temperature	Tj		-40 to 150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		200	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	1.5	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	50	A

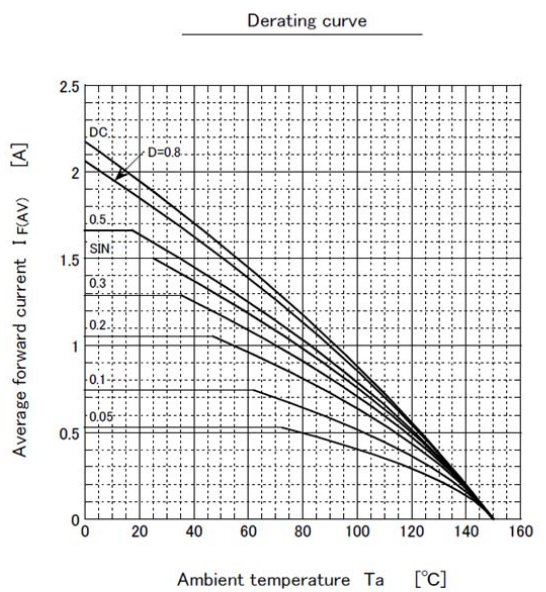
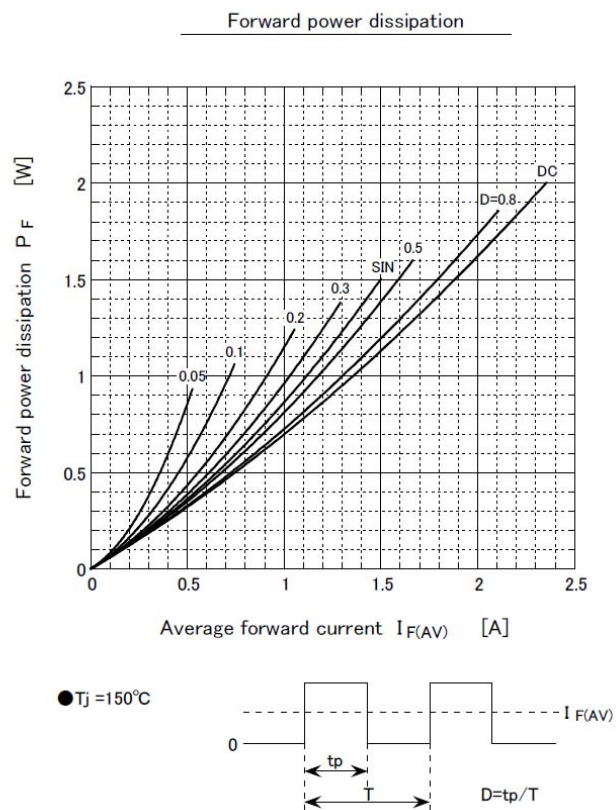
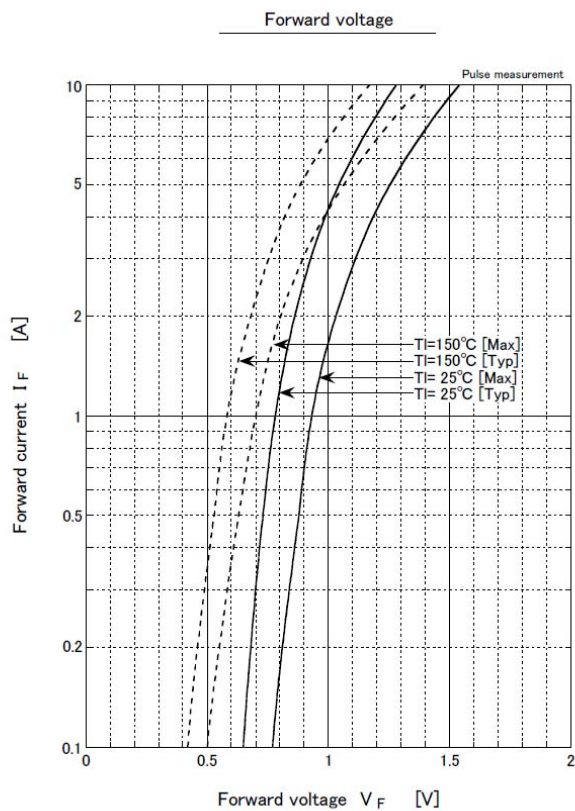
※ :See the original Specifications

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

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	IF=1.5A, Pulse measurement			0.98	V
Reverse current	I <sub>R</sub>	VR=200V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.1IR			35	ns
Thermal resistance	Rth(j-l)	Junction to lead ※			12	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient ※			83	°C/W

※ :See the original Specifications

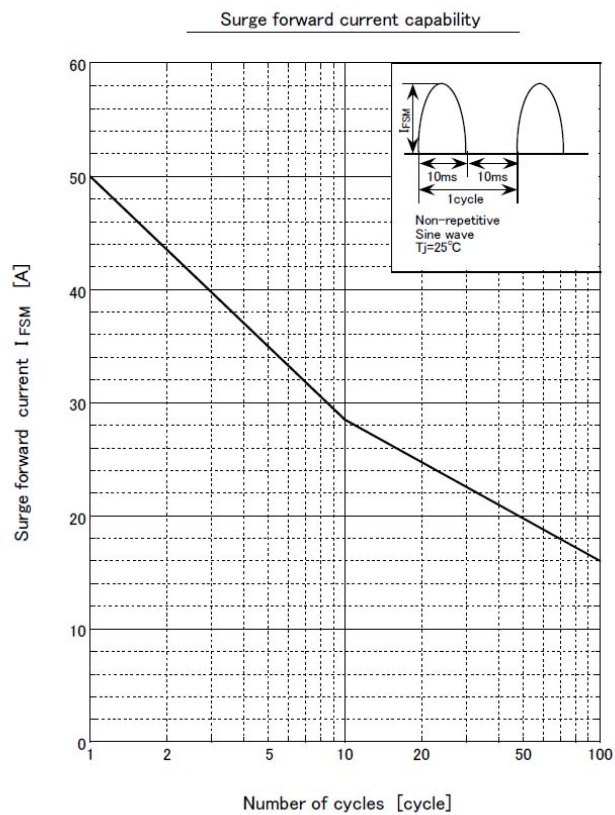
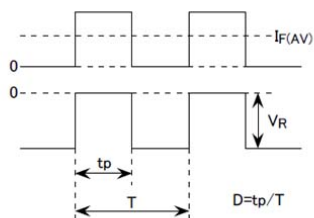
## CHARACTERISTIC DIAGRAMS

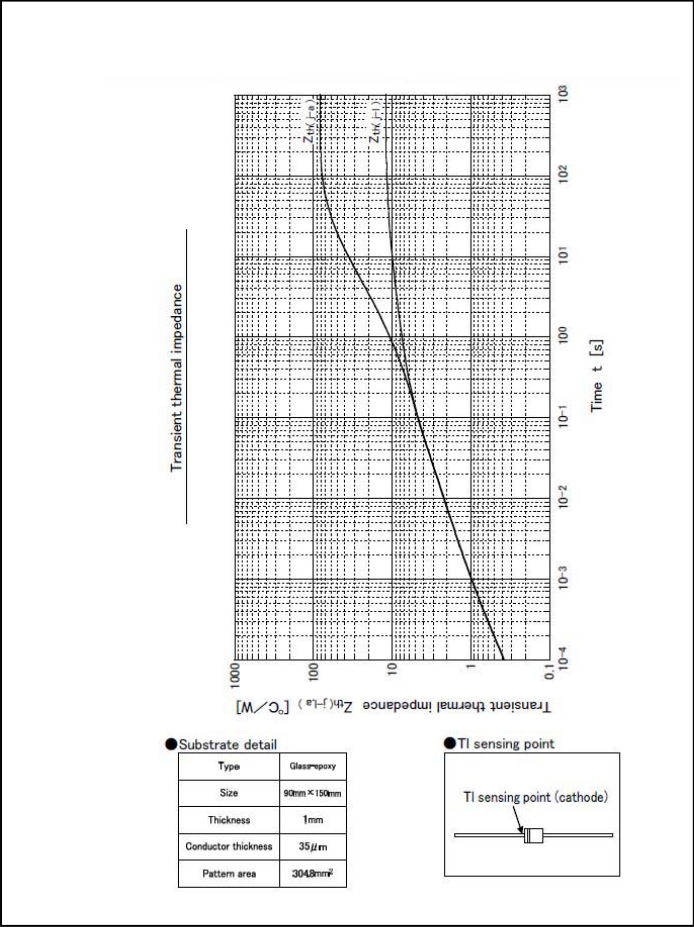
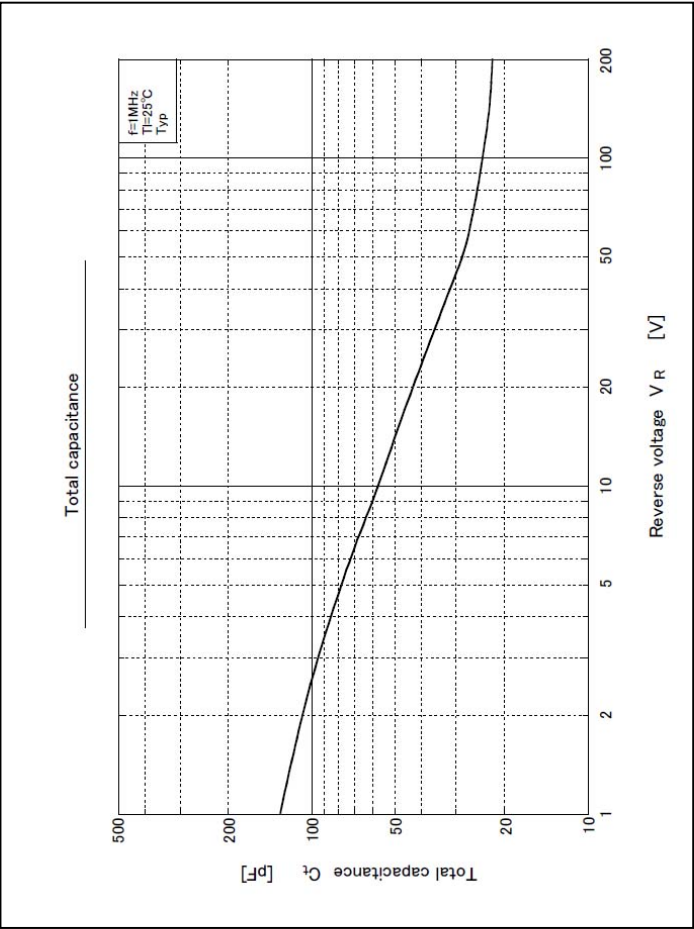
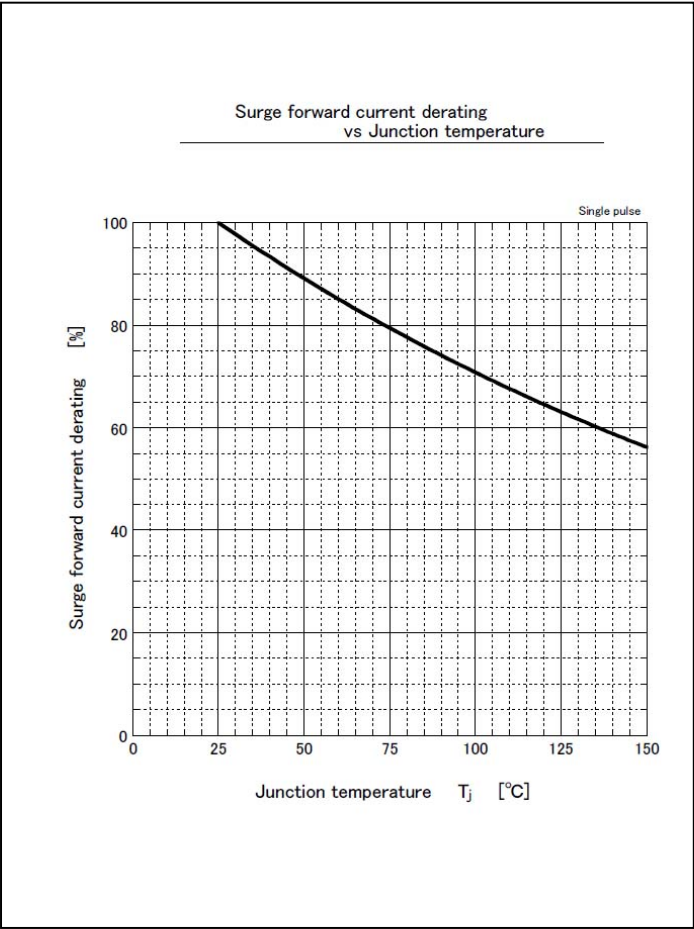


●  $V_R = 200\text{V}$   
R-load  
Free in air

● Substrate detail

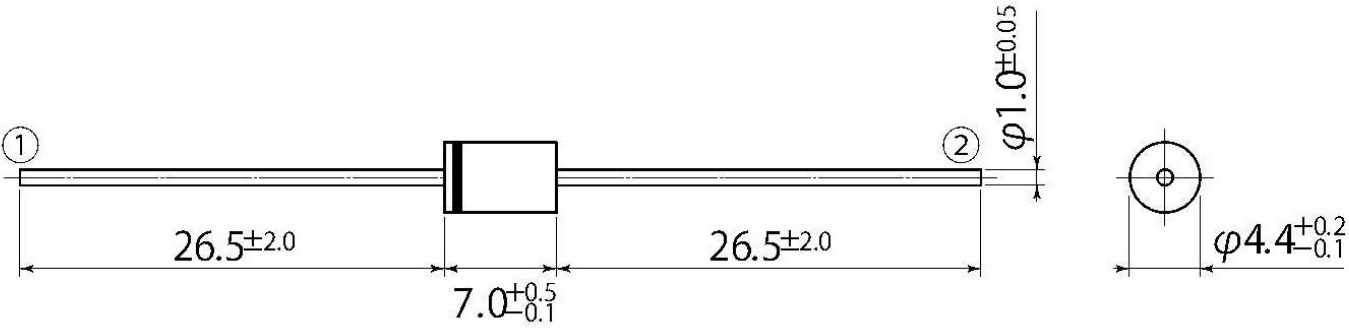
Type	Glass-epoxy
Size	90mm X 150mm
Thickness	1mm
Conductor thickness	35 $\mu\text{m}$
Pattern area	304.8mm <sup>2</sup>





A5

JEDEC Code	—
JEITA Code	—
House Name	AX10



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