

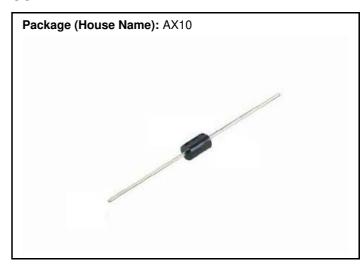
## **S2L40U**

# Fast Recovery Diodes 400V, 2A

## **Feature**

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

## **OUTLINE**



## **Equivalent circuit**



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	$V_{RRM}$		400	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Tl=120°C *	2	А
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	1.4	А
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	100	Α

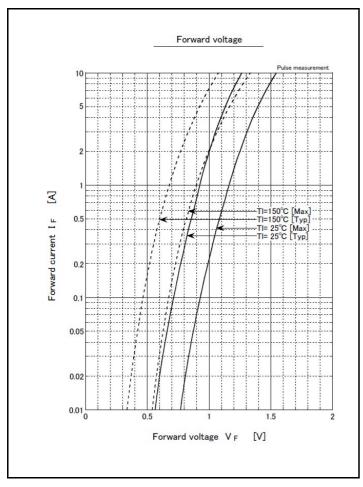
<sup>\* :</sup>See the original Specifications

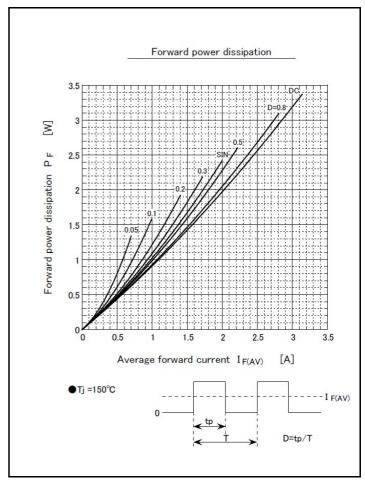
## **Electrical Characteristics** (unless otherwise specified : TI=25°C)

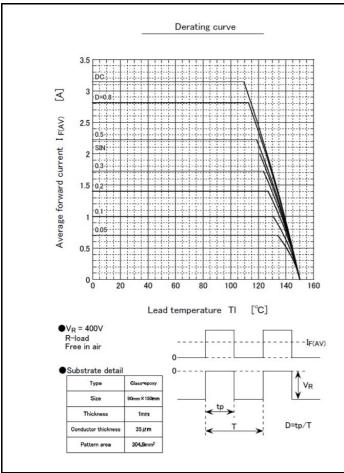
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onne
Forward voltage	V <sub>F</sub>	IF=2A, Pulse measurement			1.25	V
Reverse current	I <sub>R</sub>	VR=400V, Pulse measurement			10	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			35	ns
Total capacitance	Ct	f=1MHz, VR=10V		22		pF
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			12	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			83	°C/W

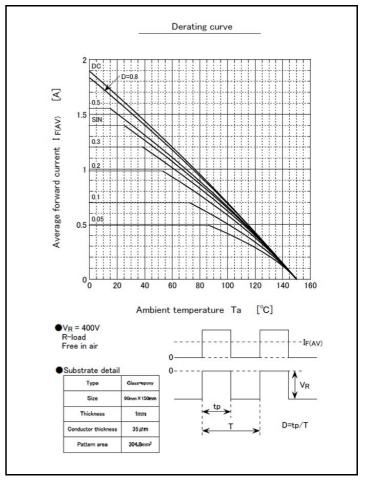
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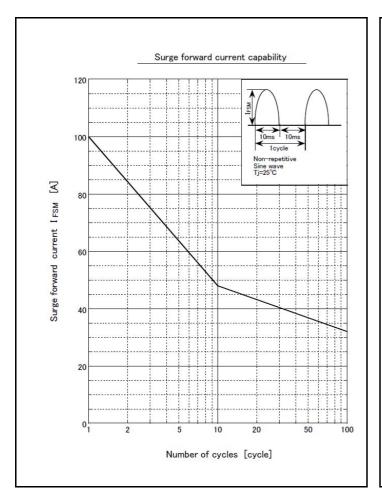
## **CHARACTERISTIC DIAGRAMS**

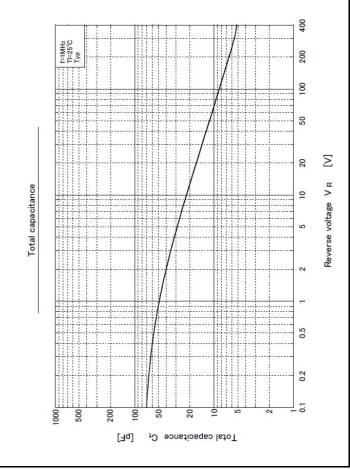


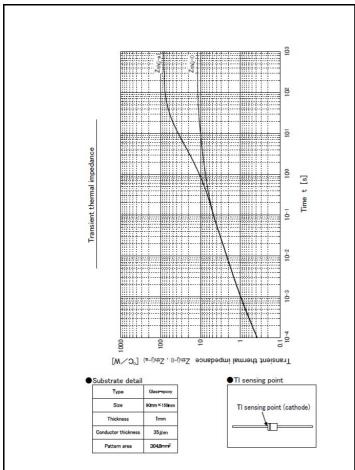










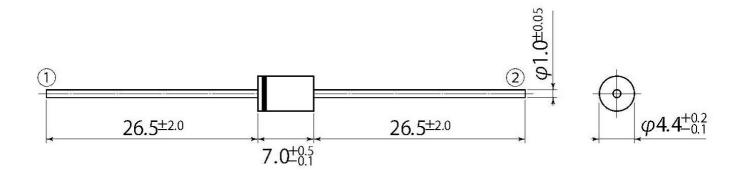


unit:mm

scale: 2/1

**A5** 

JEDEC Code	_		
JEITA Code	_		
House Name	AX10		



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