

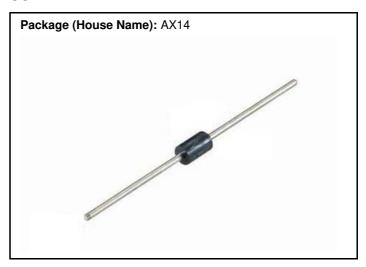
# **S3L20U**

# Fast Recovery Diodes 200V, 3A

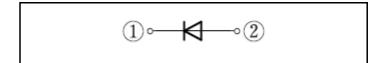
#### **Feature**

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

### **OUTLINE**



# **Equivalent circuit**



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	$V_{RRM}$		200	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, TI=128°C	3	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Ta=25°C	2.1	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	А

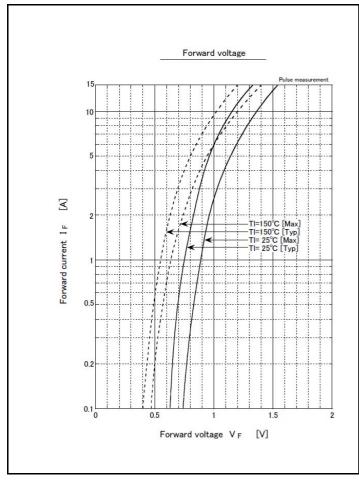
st :See the original Specifications

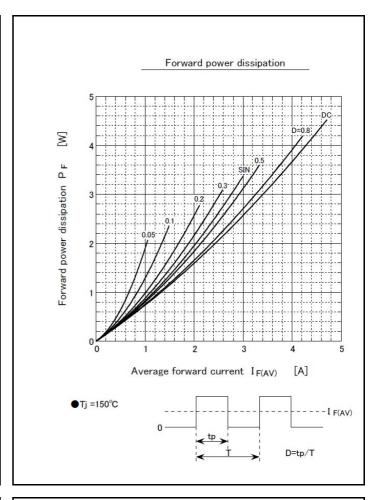
### **Electrical Characteristics** (unless otherwise specified : TI=25°C)

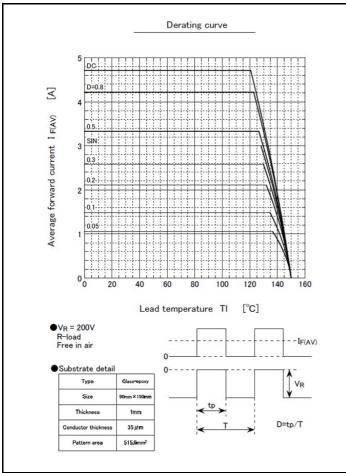
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onne
Forward voltage	V <sub>F</sub>	IF=2.1A, Pulse measurement			0.98	V
Reverse current	I <sub>R</sub>	VR=200V, Pulse measurement			10	μΑ
Reverse recovery time	trr	IF=0.5A, IR=1A			35	ns
Thermal resistance	Rth(j-l)	Junction to lead			6.5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			60	°C/W

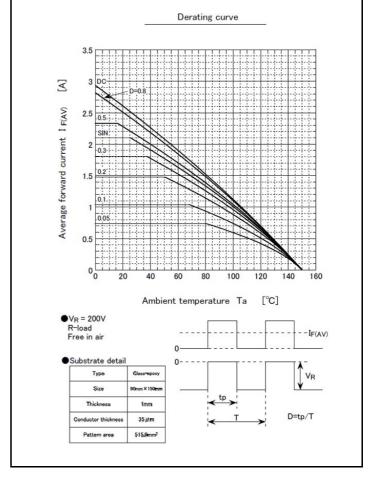
<sup>\* :</sup> See the original Specifications

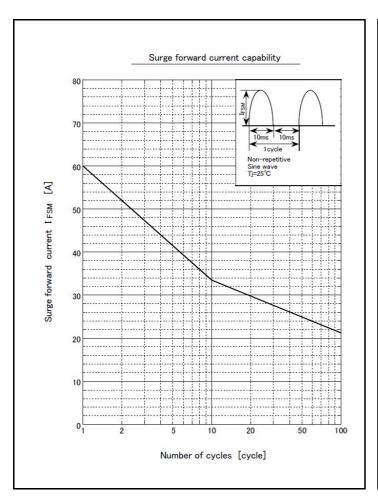
## **CHARACTERISTIC DIAGRAMS**

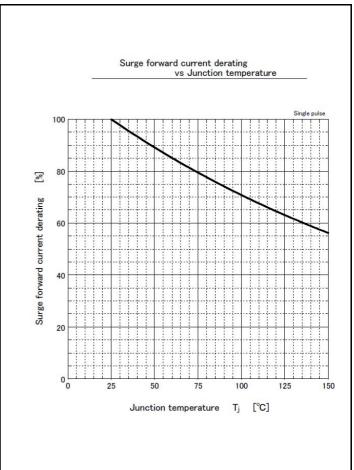


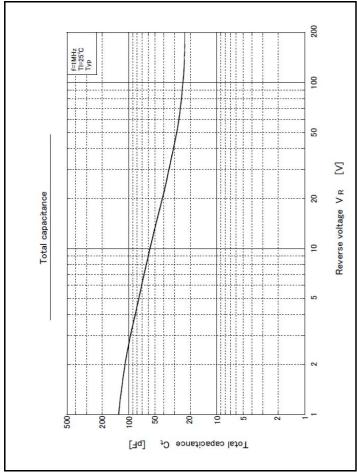










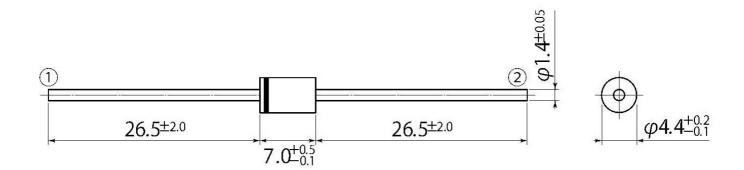


unit:mm

scale: 2/1

Α7

JEDEC Code	-		
JEITA Code	—		
House Name	AX14		



#### **Notes**

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#### (Special applications)

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