

# S3L60

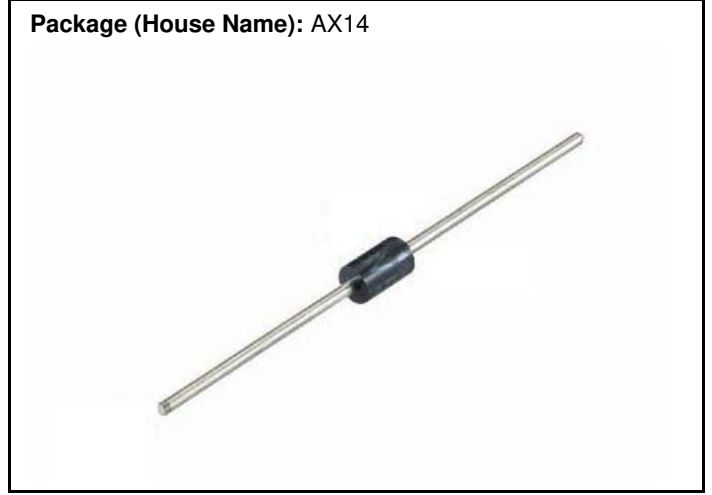
## Fast Recovery Diodes 600V, 2.2A

### Feature

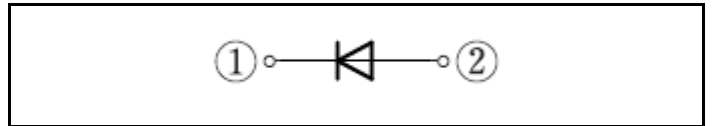
- High Voltage
- Low Noise
- Pb free terminal
- RoHS:Yes

### OUTLINE

Package (House Name): AX14



### Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T <sub>stg</sub>		-55 to 150	°C
Junction temperature	T <sub>j</sub>		150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		600	V
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, Tl=132°C	2.2	A
Average forward current	I <sub>F(AV)</sub>	50Hz sine wave, Resistance load, Ta=25°C	1.8	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	60	A

\* :See the original Specifications

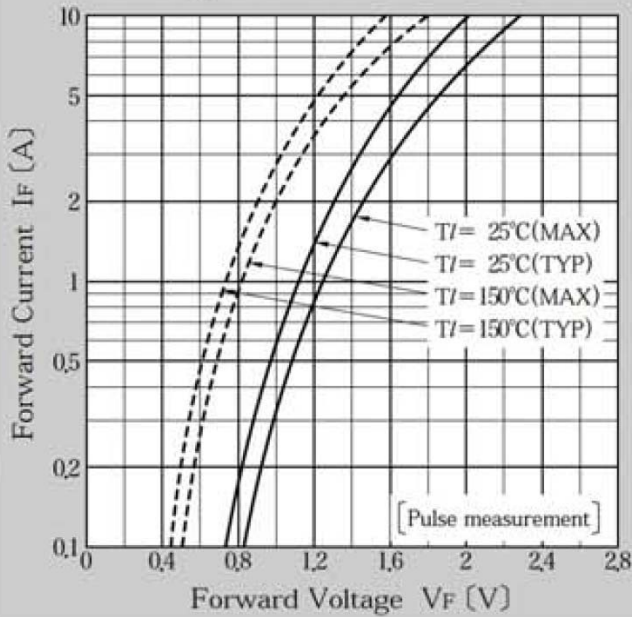
### Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =2.2A, Pulse measurement			1.5	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =600V, Pulse measurement			10	μA
Reverse recovery time	trr	I <sub>F</sub> =0.5A, I <sub>R</sub> =1A			50	ns
Thermal resistance	R <sub>th(j-l)</sub>	Junction to lead			6.5	°C/W
Thermal resistance	R <sub>th(j-a)</sub>	Junction to ambient			60	°C/W

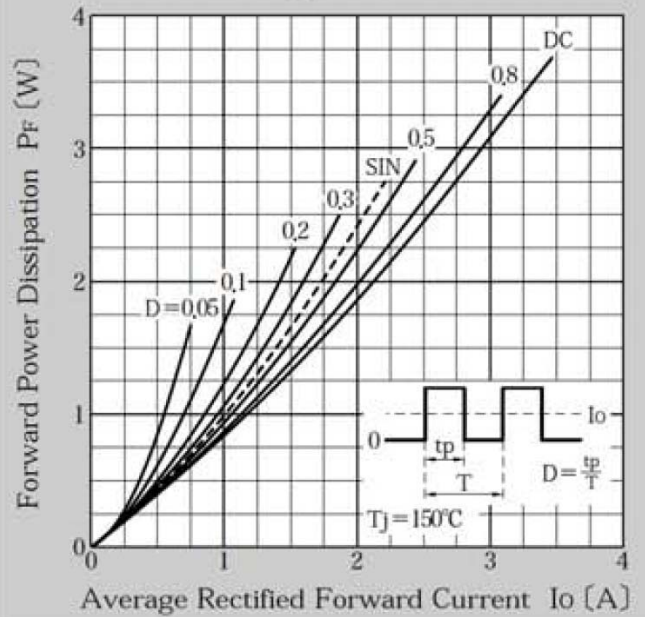
\* :See the original Specifications

# CHARACTERISTIC DIAGRAMS

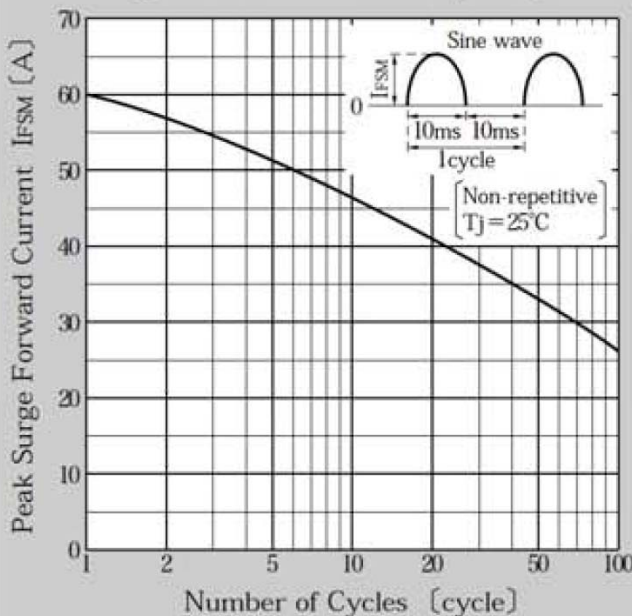
### Forward Voltage



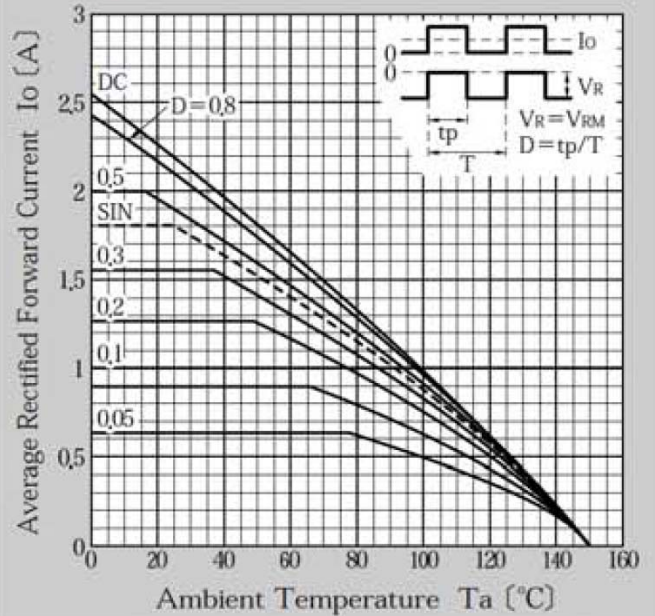
### Forward Power Dissipation

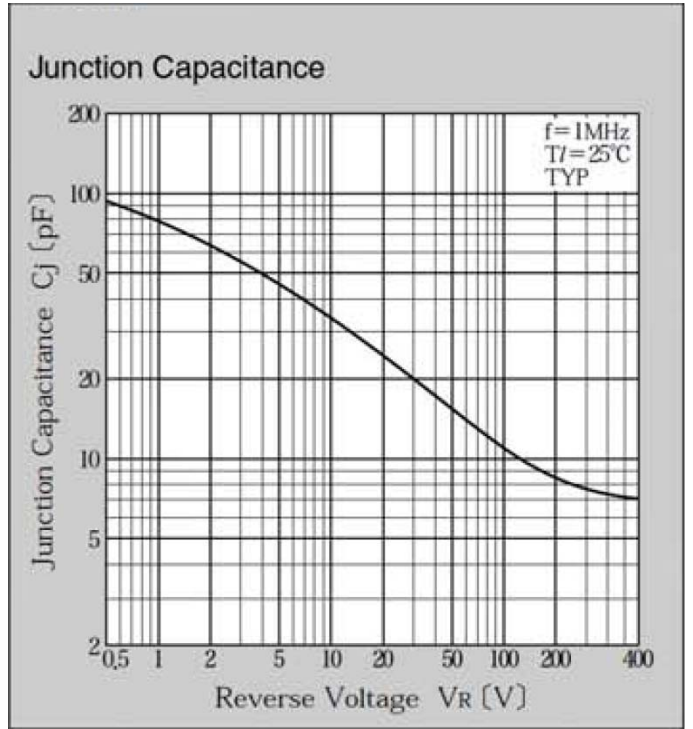
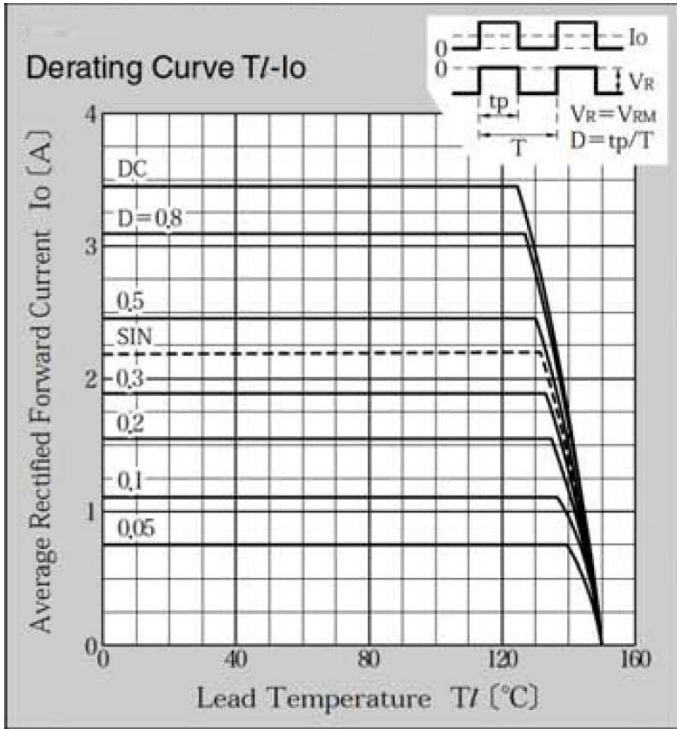


### Peak Surge Forward Current Capability



### Derating Curve $T_a$ - $I_o$





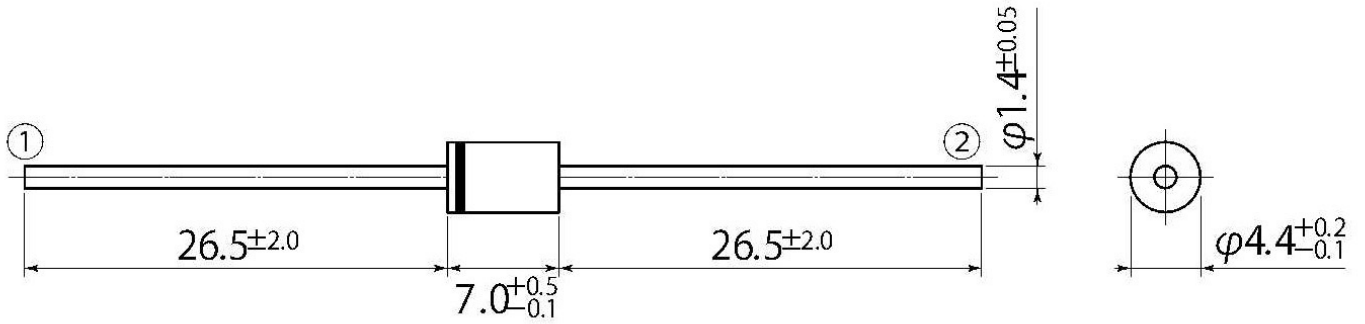
# Outline Dimensions

unit:mm

scale: 2/1

## A7

JEDEC Code	—
JEITA Code	—
House Name	AX14



## Notes

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