ShinDengen

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 temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		-40 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		200	V
Average forward current	I_F(AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	1.5	A
Surge forward current	I_{FSM}	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_F	IF=1.5A, Pulse measurement			0.98	V
Reverse current	I_R	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

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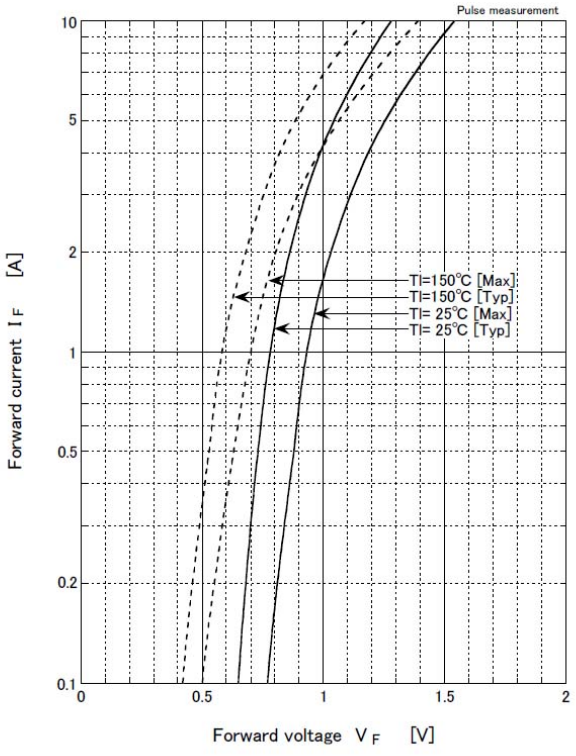
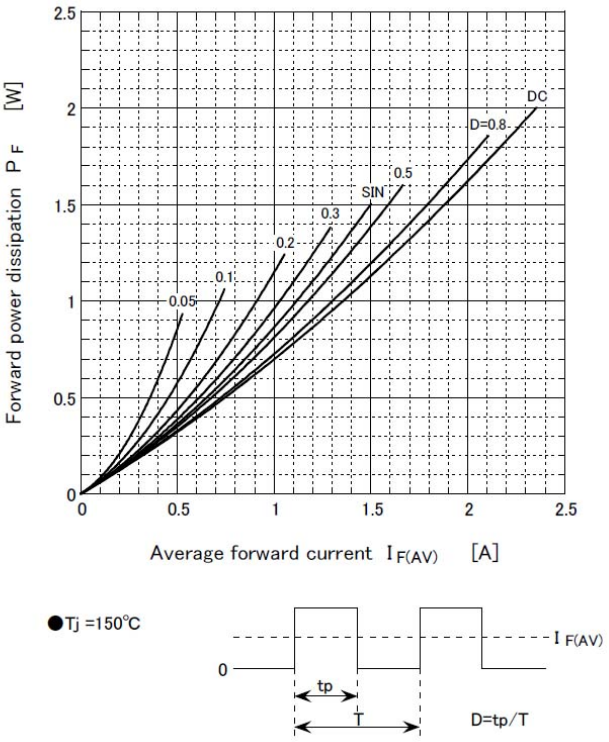
CHARACTERISTIC DIAGRAMS

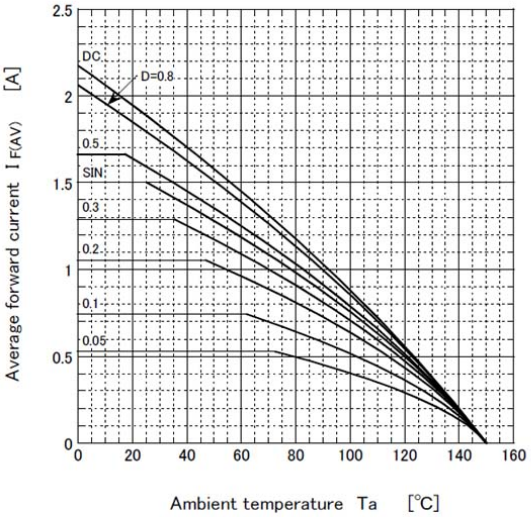
Forward voltage



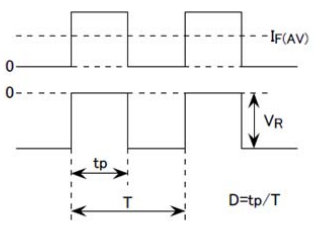
Forward power dissipation



Derating curve



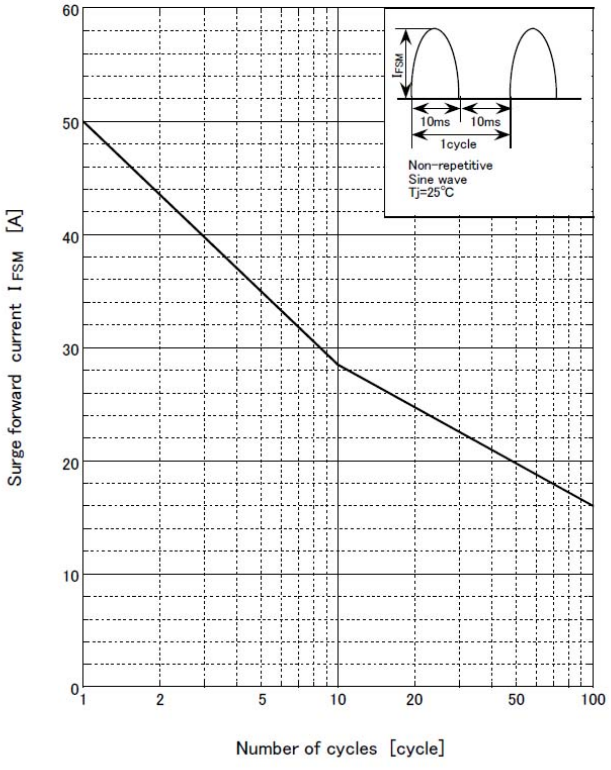
●V_R = 200V
R-load
Free in air



●Substrate detail

Type	Glass-epoxy
Size	90mm×150mm
Thickness	1mm
Conductor thickness	35μm
Pattern area	304.8mm²

Surge forward current capability



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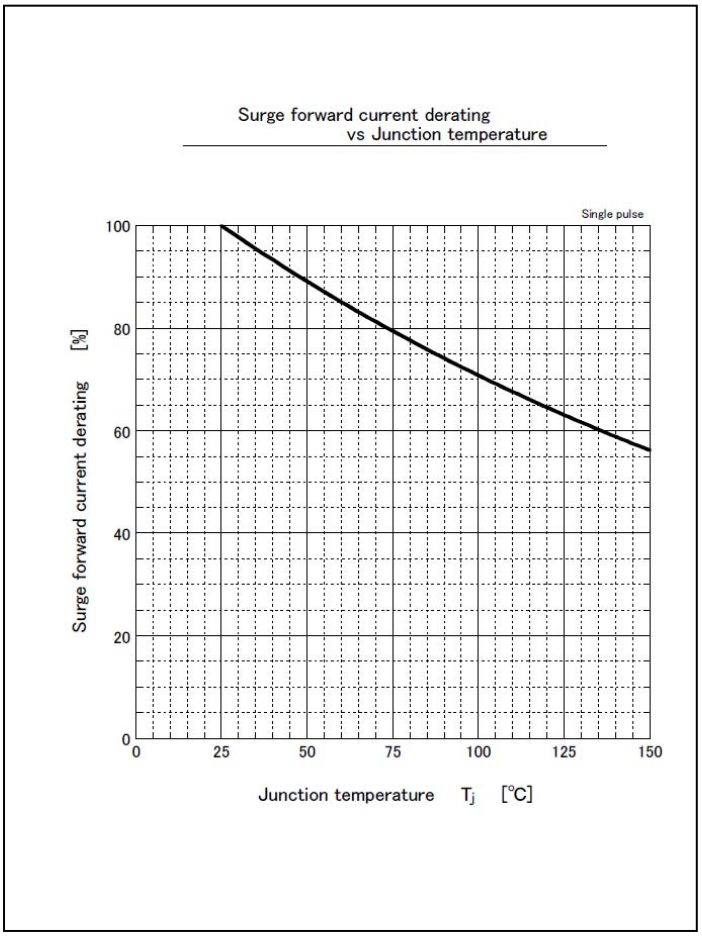

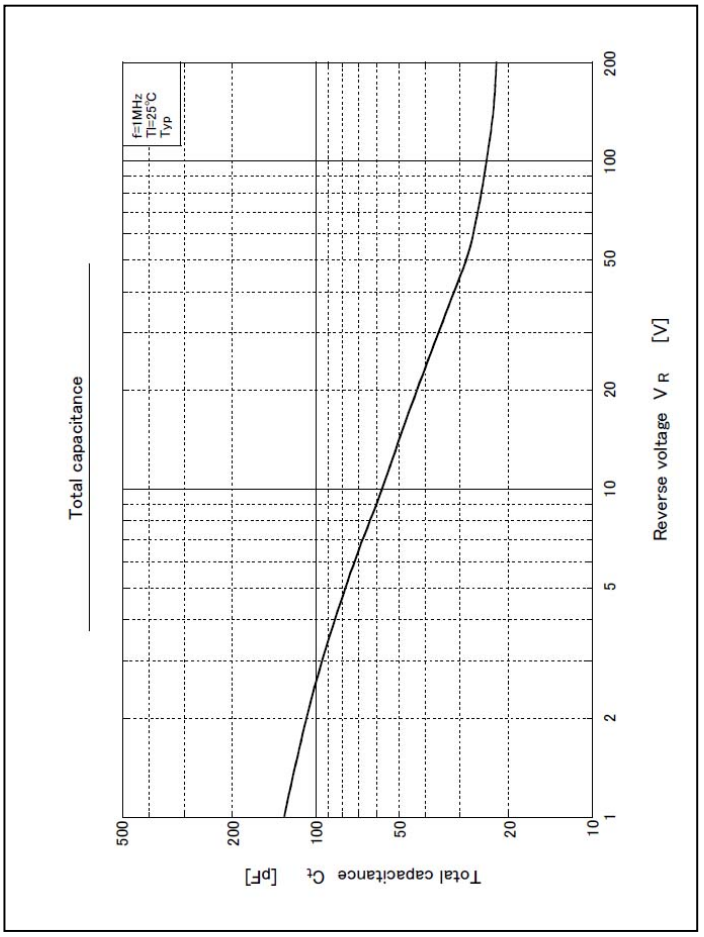

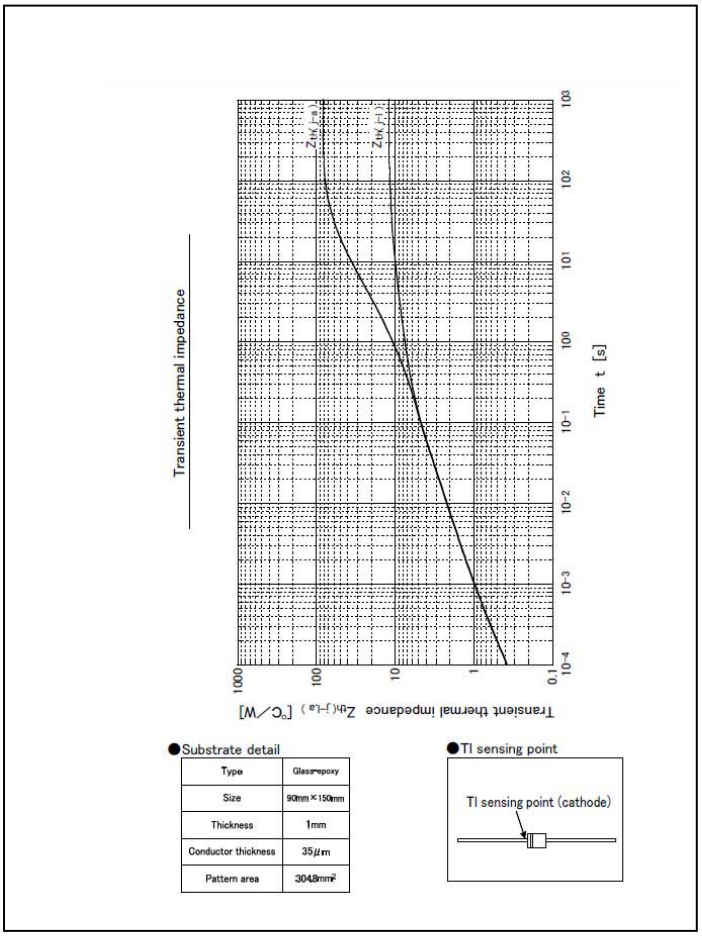

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Outline Dimensions

unit:mm

A5

JEDEC Code	–
JEITA Code	–
House Name	AX10

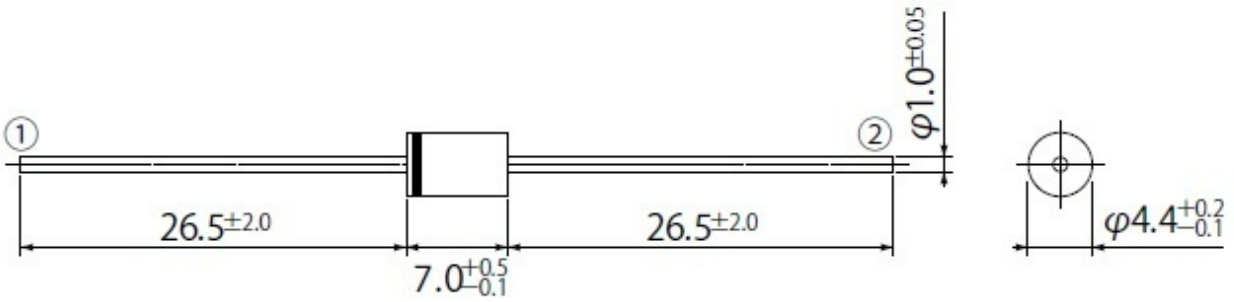
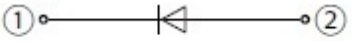


Fig. A5-1



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