

S2V80

General Rectifying Diodes

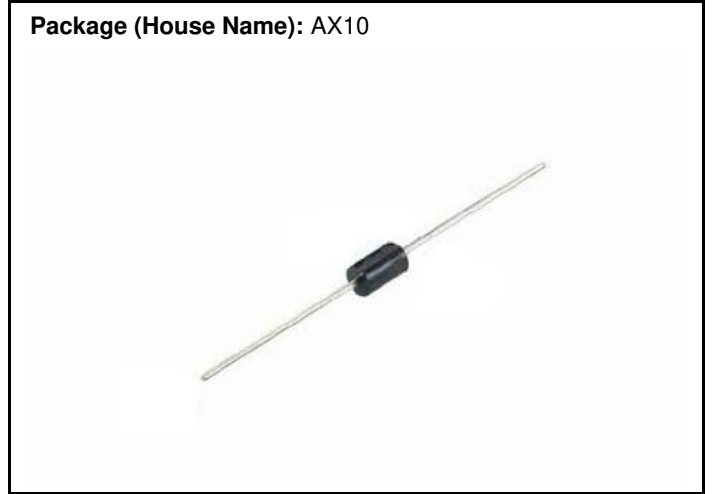
800V, 1.7A

Feature

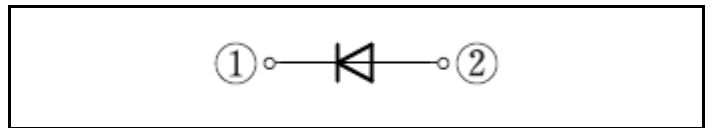
- High Voltage
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): AX10



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-55 to 150	°C
Junction temperature	T _j		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		800	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, On glass-epoxy substrate, T _a =40°C *	1.7	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	60	A
Surge forward current	I _{FSM1}	t _p =1ms, sine wave, Non-repetitive, peak value, T _j =25°C	170	A

* :See the original Specifications

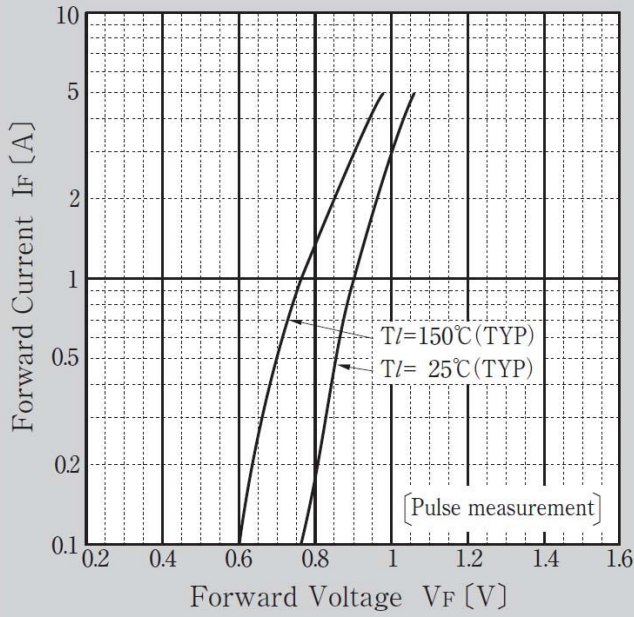
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =1.7A, Pulse measurement			1.05	V
Reverse current	I _R	V _R =800V, Pulse measurement			10	μA
Thermal resistance	R _{th(j-l)}	Junction to lead, On glass-epoxy substrate *			8	°C/W

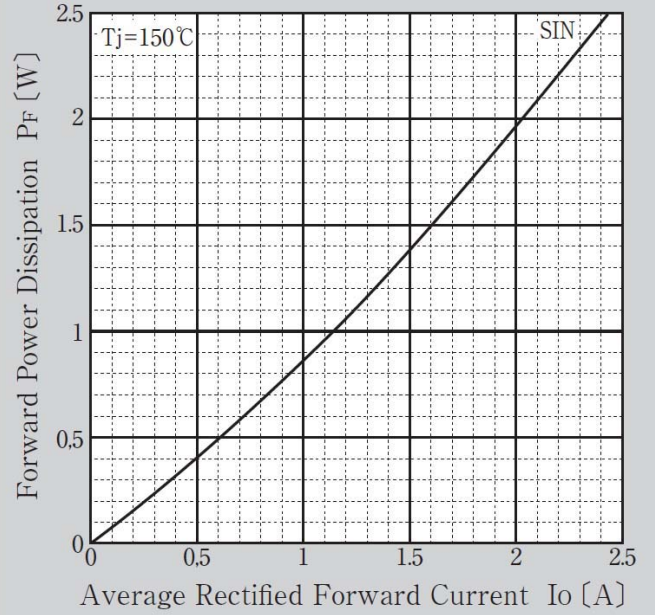
* :See the original Specifications

CHARACTERISTIC DIAGRAMS

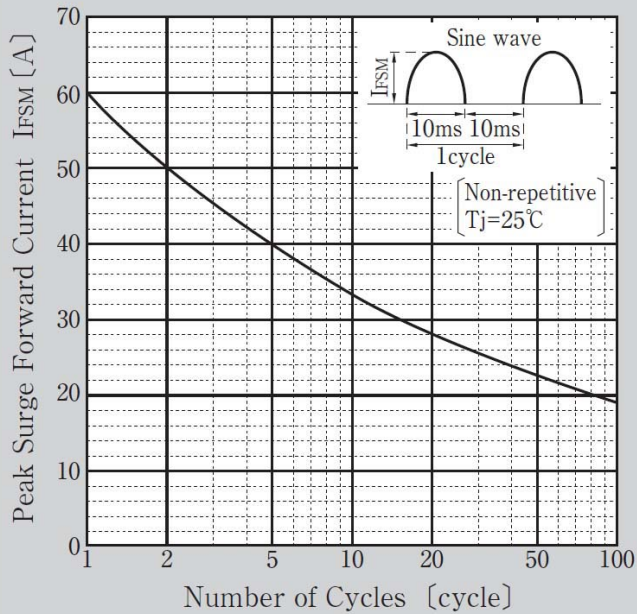
Forward Voltage



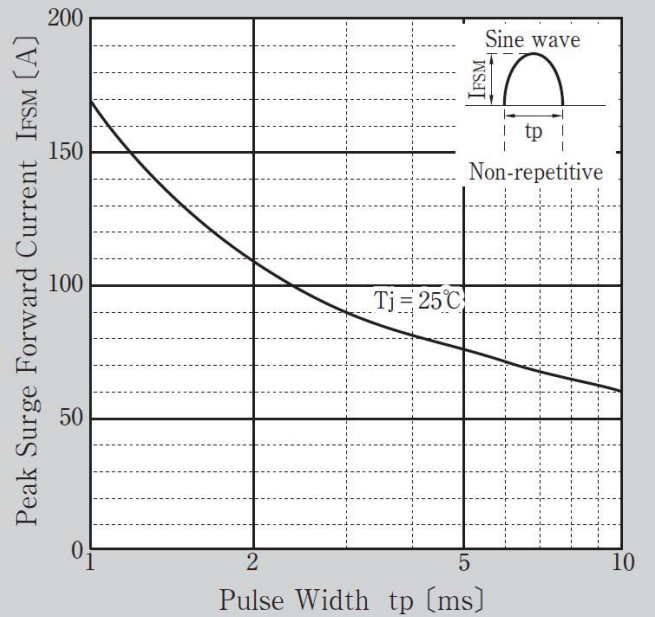
Forward Power Dissipation



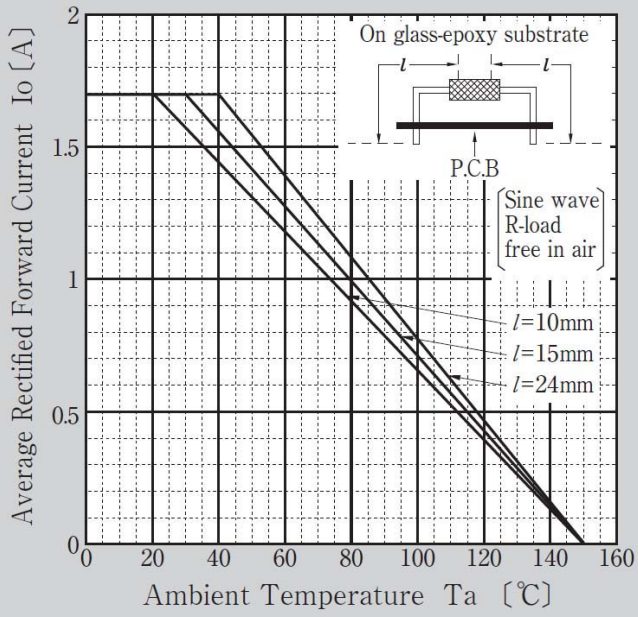
Peak Surge Forward Current Capability



Peak Surge Forward Current Capability



Derating Curve



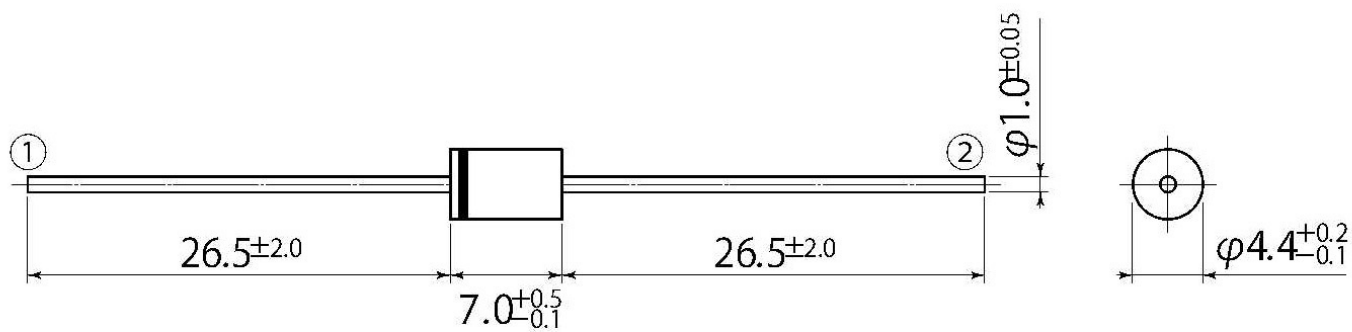
Outline Dimensions

unit:mm

scale: 2/1

A5

JEDEC Code	—
JEITA Code	—
House Name	AX10



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