

D2L40U

Fast Recovery Diodes

400V, 2A

Feature

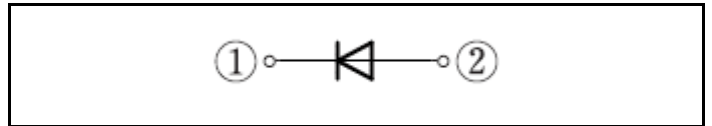
- High Recovery Speed
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): AX078



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		150	°C
Repetitive peak reverse voltage	V _{RRM}		400	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Tl=108°C	2	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, Ta=25°C	1.1	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	80	A

※ : See the original Specifications

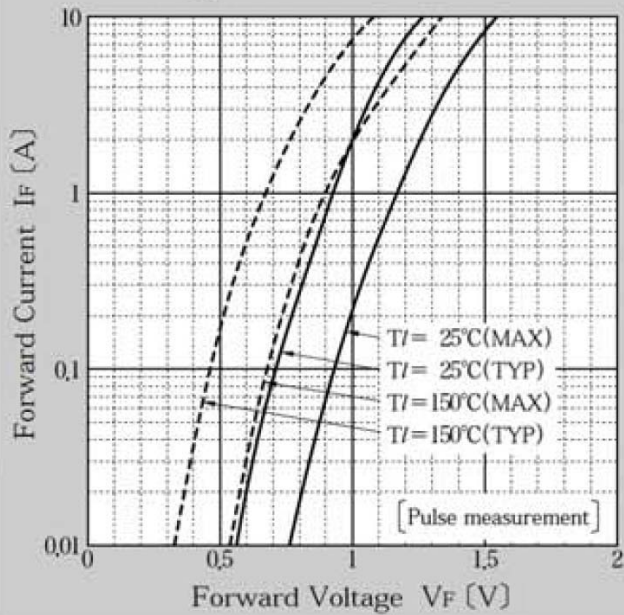
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =2A, Pulse measurement			1.25	V
Reverse current	I _R	V _R =400V, Pulse measurement			10	μA
Reverse recovery time	t _{rr}	I _F =0.5A, I _R =1A, 0.25I _R			35	ns
Total capacitance	C _t	f=1MHz, V _R =10V		22		pF
Thermal resistance	R _{th(j-l)}	Junction to lead			17	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient			105	°C/W

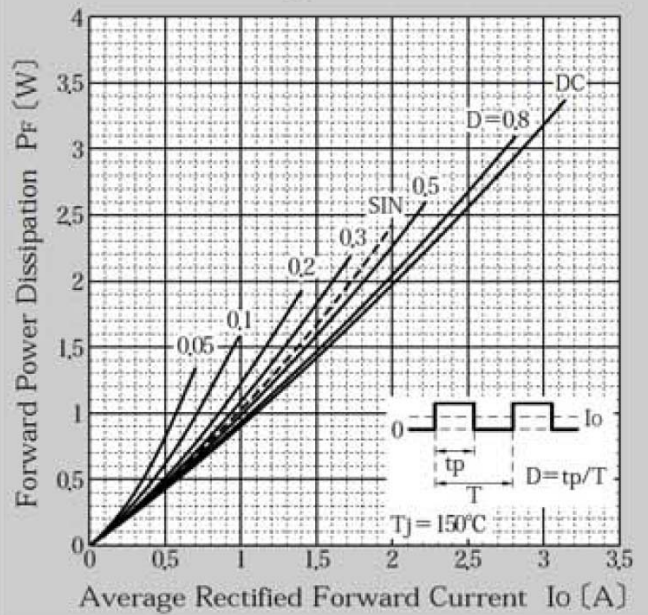
※ : See the original Specifications

CHARACTERISTIC DIAGRAMS

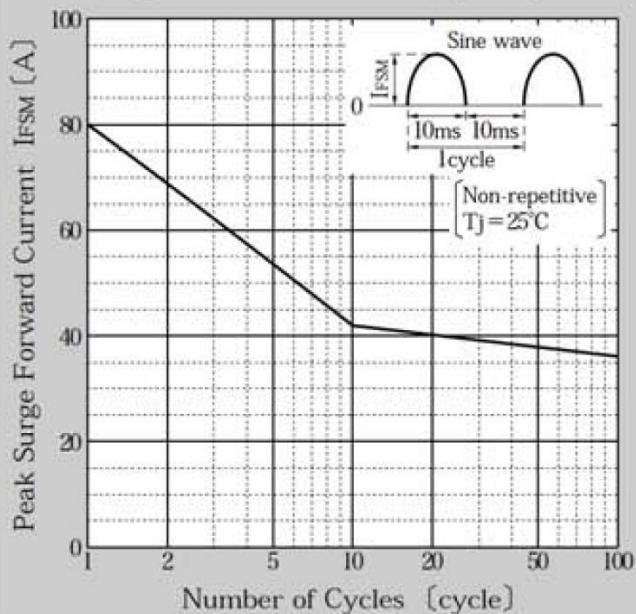
Forward Voltage



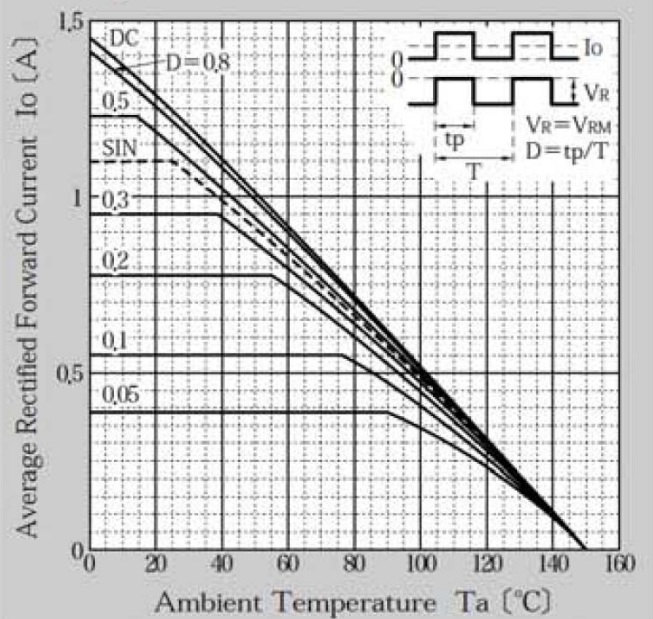
Forward Power Dissipation



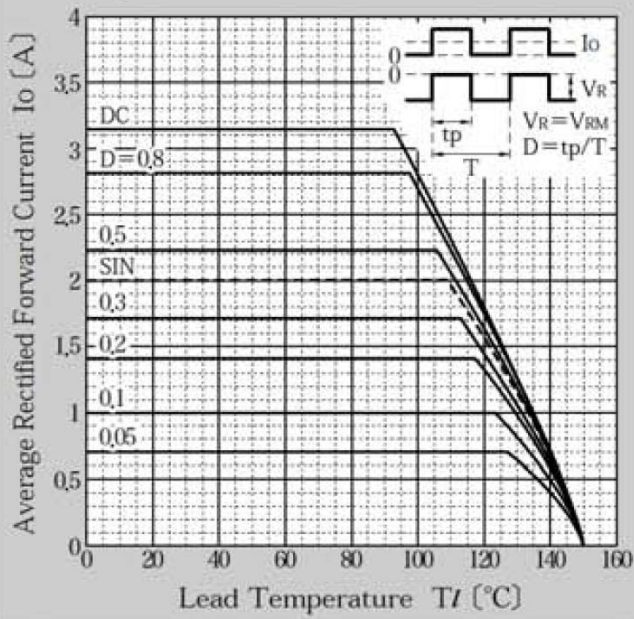
Peak Surge Forward Current Capability



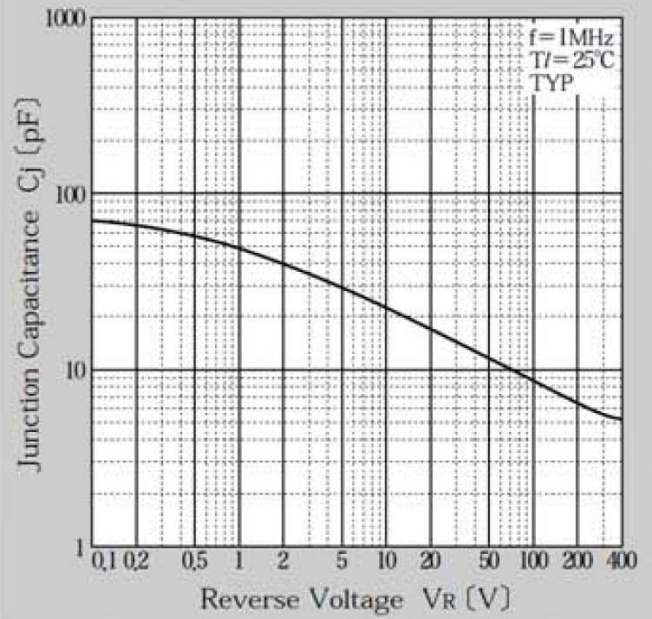
Derating Curve $T_a - I_o$



Derating Curve T_l - I_o



Junction Capacitance



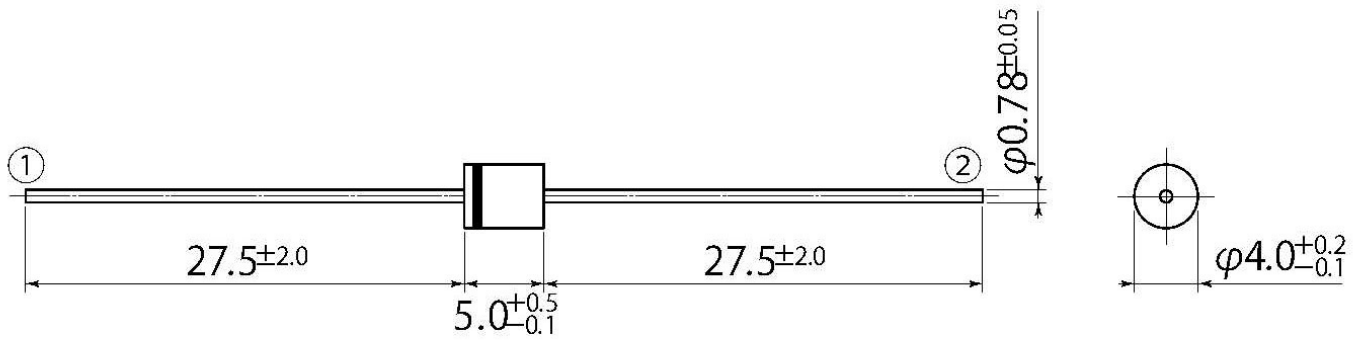
Outline Dimensions

unit:mm

scale: 2/1

A4

JEDEC Code	—
JEITA Code	—
House Name	AX078



Notes

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