

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 temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		400	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Tl=108°C	2	A
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Ta=25°C	1.1	A
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle, Peak value, Tj=25°C	80	A

※ :See the original Specifications

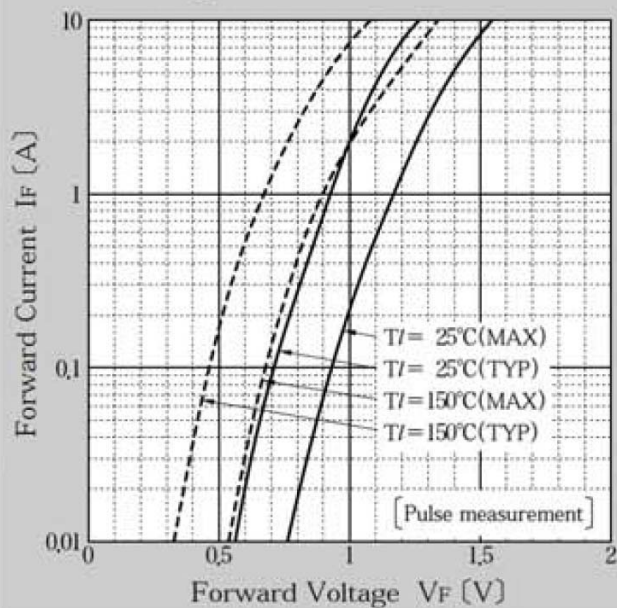
**Electrical Characteristics** (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=2A, Pulse measurement			1.25	V
Reverse current	$I_R$	VR=400V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1A, 0.25IR			35	ns
Total capacitance	Ct	f=1MHz, VR=10V		22		pF
Thermal resistance	Rth(j-l)	Junction to lead			17	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			105	°C/W

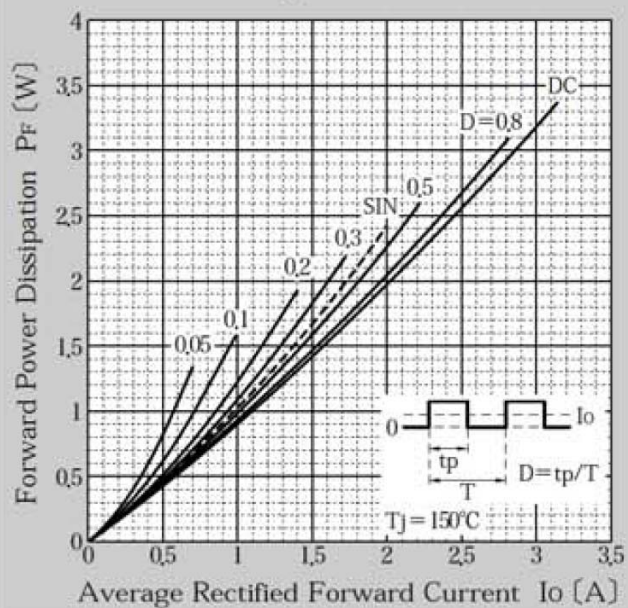
※ :See the original Specifications

## CHARACTERISTIC DIAGRAMS

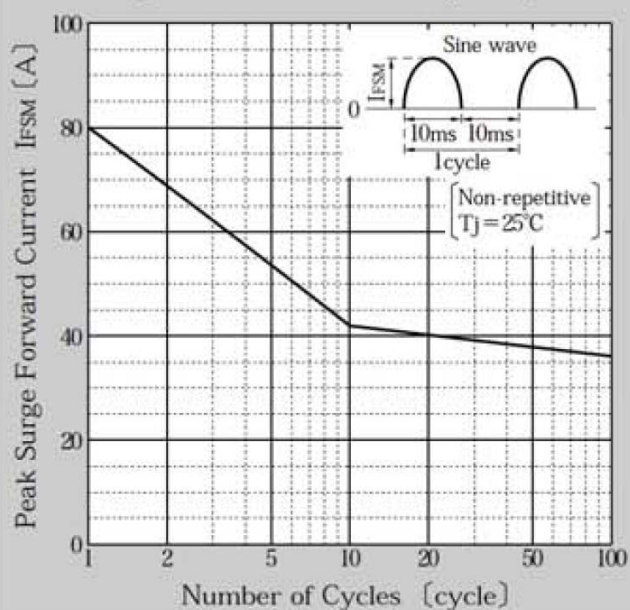
Forward Voltage



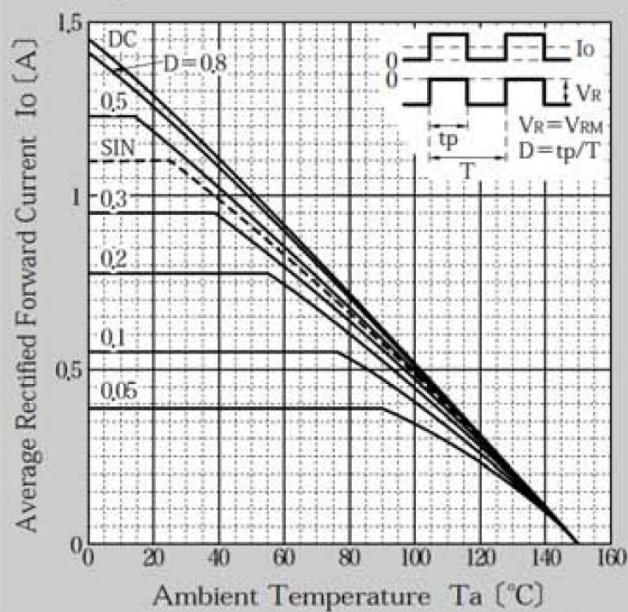
Forward Power Dissipation



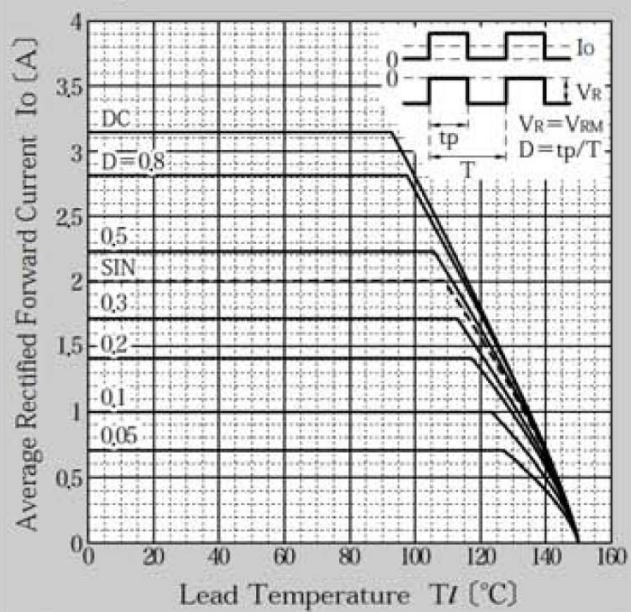
Peak Surge Forward Current Capability



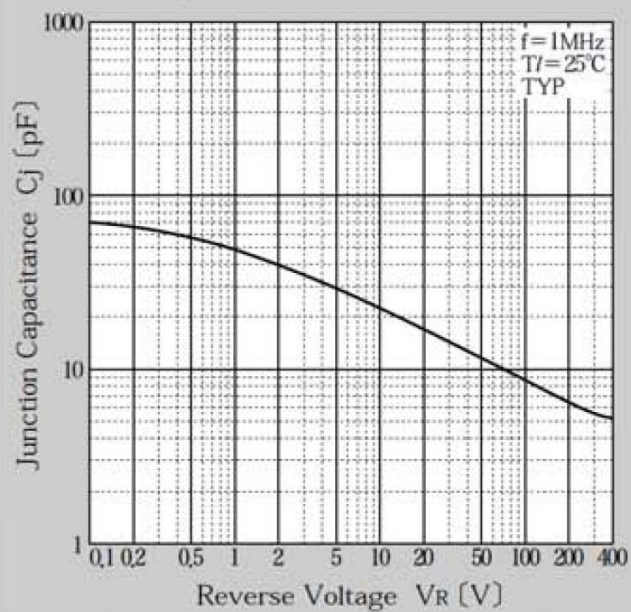
Derating Curve  $T_a$ - $I_o$



Derating Curve  $T_I$ - $I_o$



Junction Capacitance



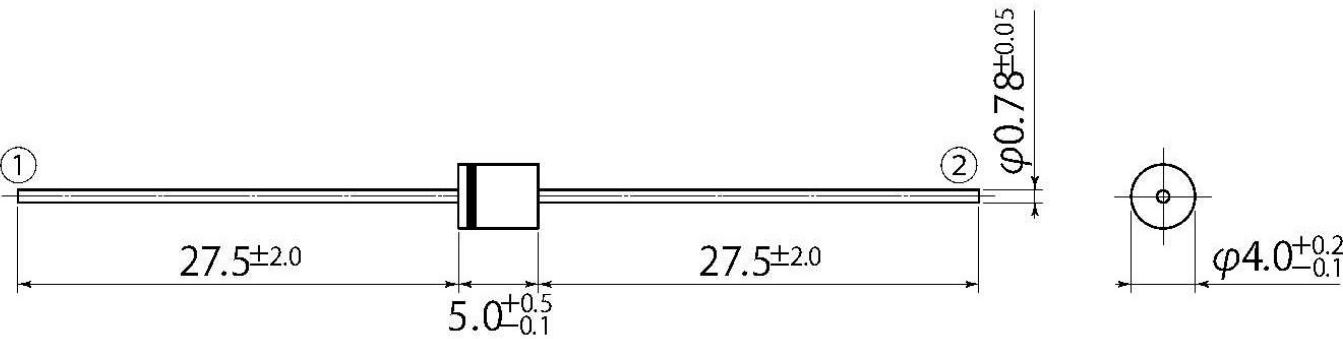
# Outline Dimensions

unit:mm

scale: 2/1

A4

JEDEC Code	—
JEITA Code	—
House Name	AX078



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