

D2S6M  
Schottky Barrier Diodes  
60V, 2A

Feature

- High Recovery Speed
- Low  $V_F$
- 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		-40 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	$V_{RRM}$		60	V
Repetitive peak surge reverse voltage	$V_{RRSM}$	Pulse width 0.5ms, duty=1/40	65	V
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, With heatsink ,Tl=119°C	2	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, With heatsink, Ta=25°C	1.2	A
Surge forward current	$I_{FSM}$	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	60	A
Repetitive peak surge reverse power	$P_{RRSM}$	Pulse width 10μs, Tj=25°C	330	W

※ :See the original Specifications

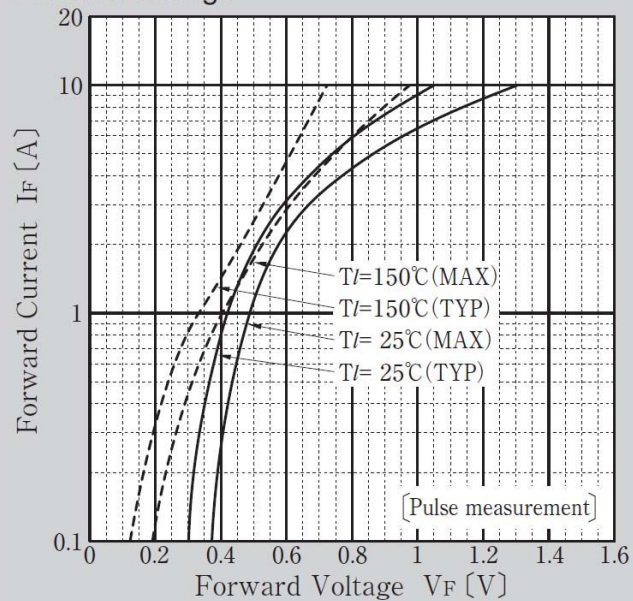
**Electrical Characteristics** (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=2A, Pulse measurement			0.58	V
Reverse current	$I_R$	VR=60V, Pulse measurement			2	mA
Total capacitance	$C_t$	f=1MHz, VR=10V		90		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

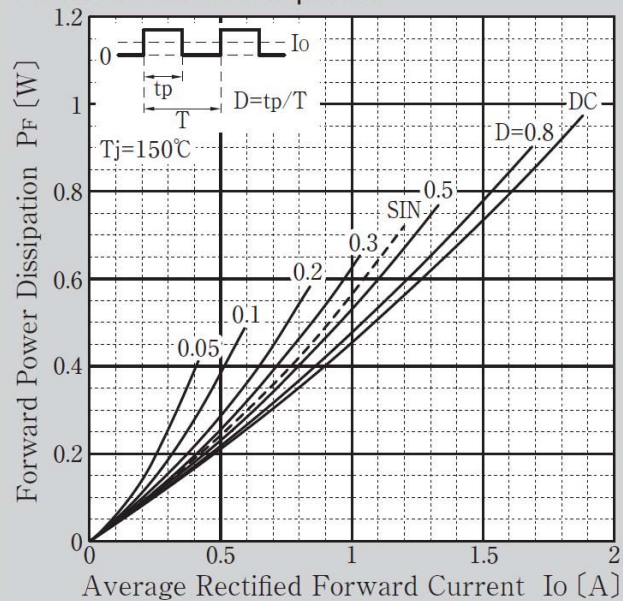
※ :See the original Specifications

## CHARACTERISTIC DIAGRAMS

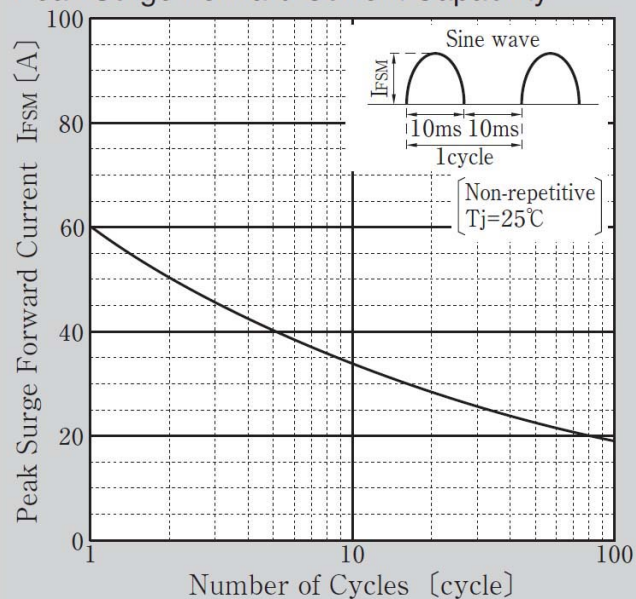
### Forward Voltage



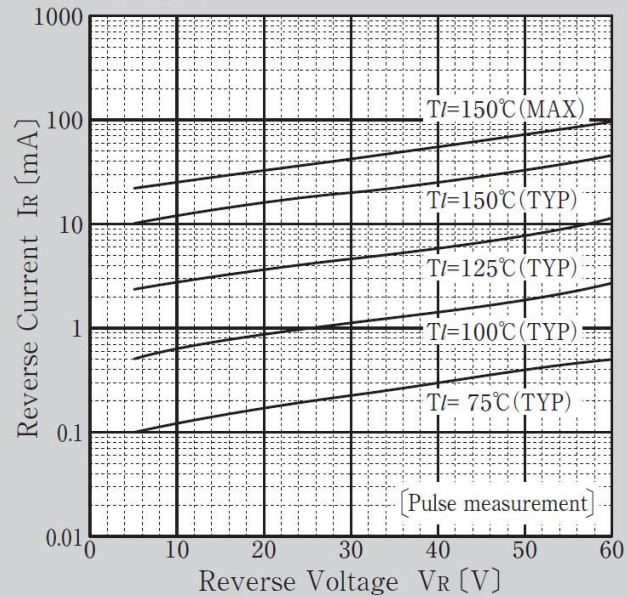
### Forward Power Dissipation



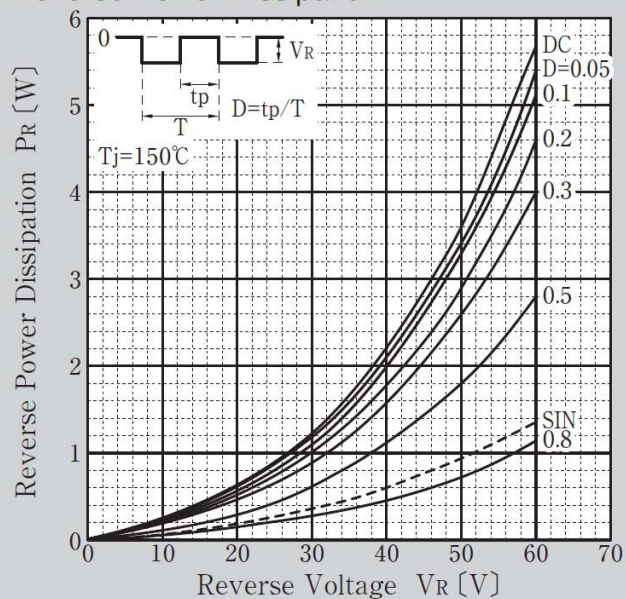
### Peak Surge Forward Current Capability



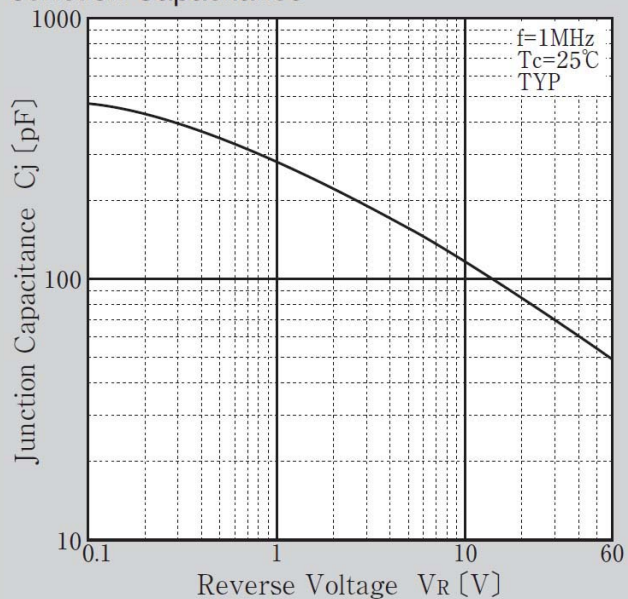
### Reverse Current



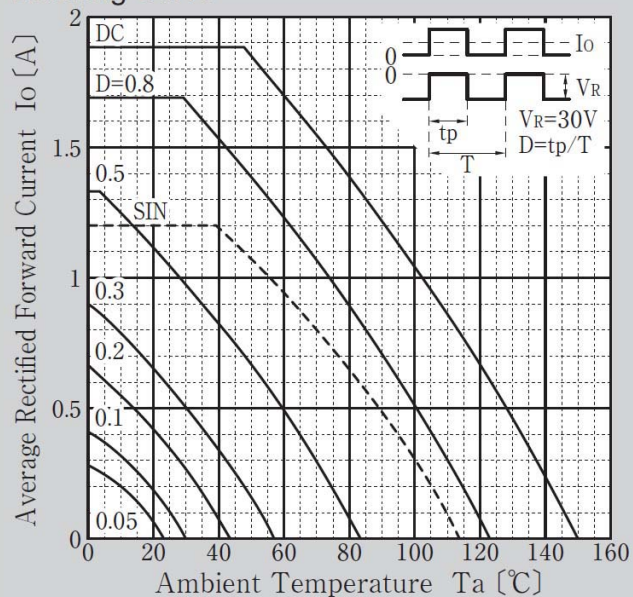
### Reverse Power Dissipation



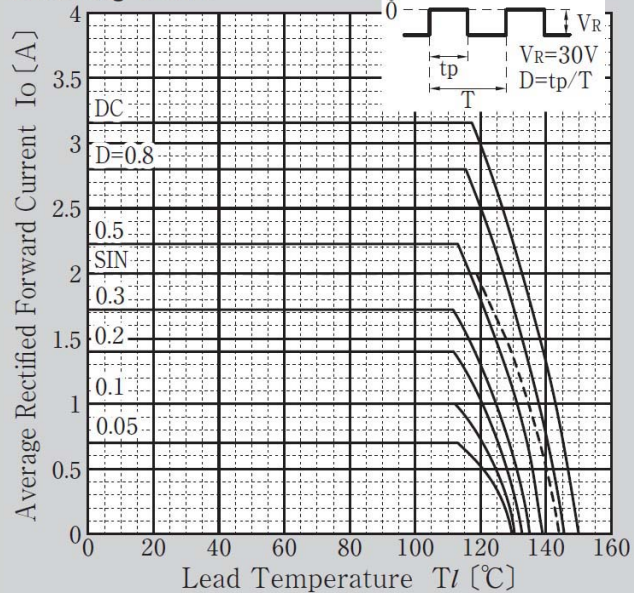
### Junction Capacitance



### Derating Curve

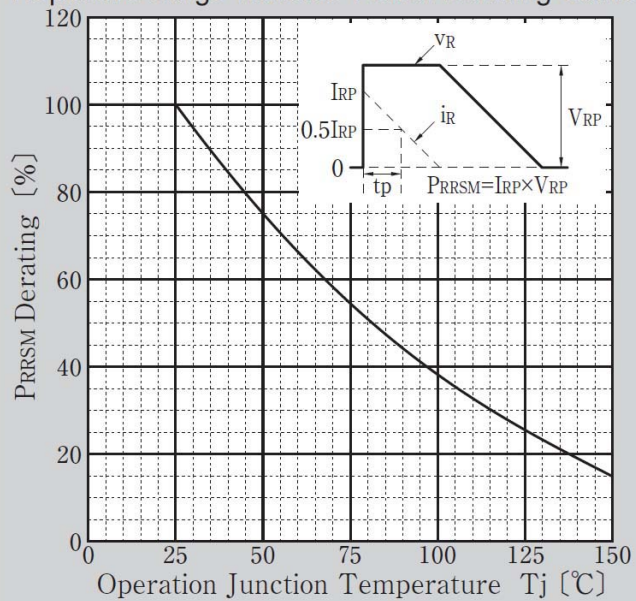


### Derating Curve

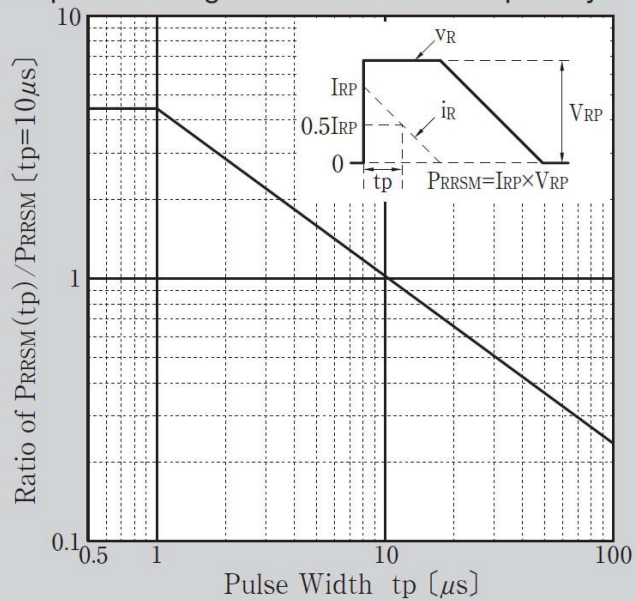




# Repetitive Surge Reverse Power Derating Curve

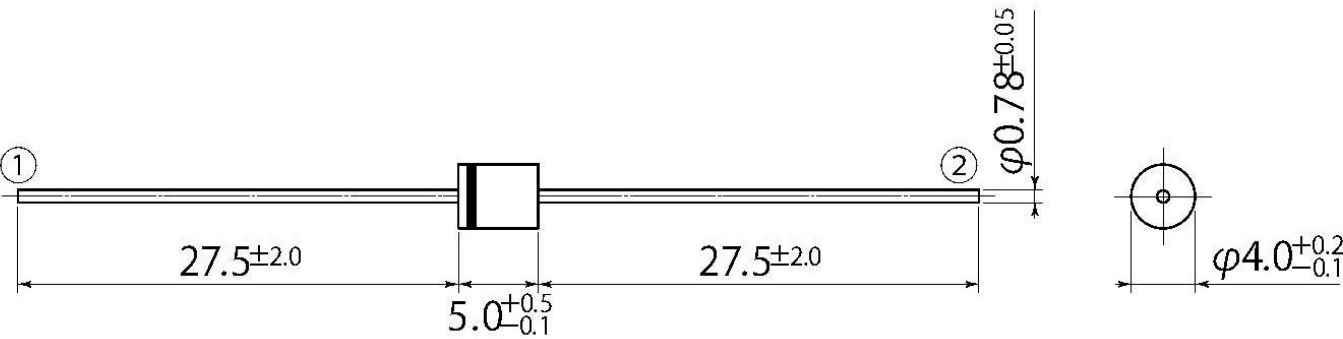


# Repetitive Surge Reverse Power Capability



A4

JEDEC Code	—
JEITA Code	—
House Name	AX078



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