

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

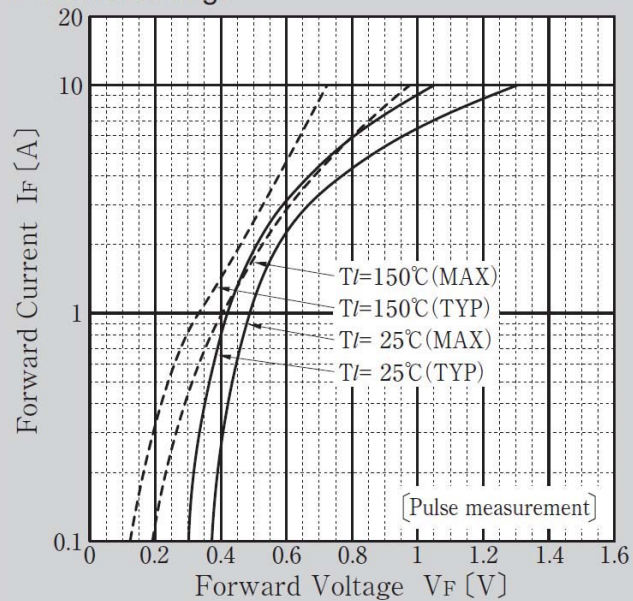
Electrical Characteristics (unless otherwise specified : Tl=25°C)

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

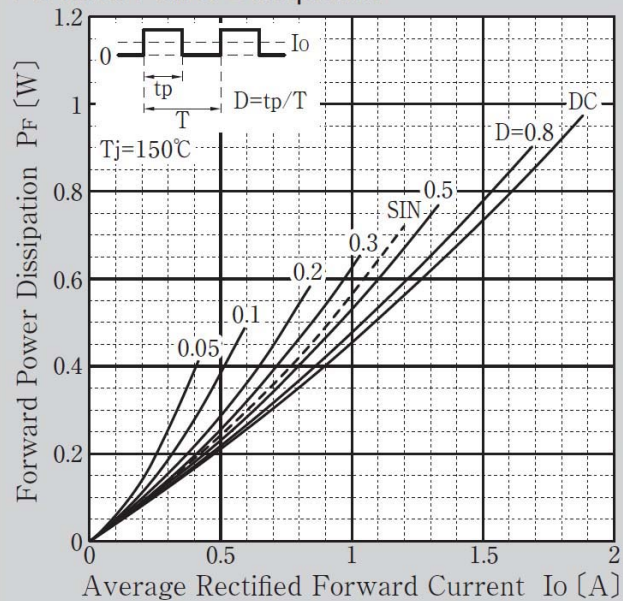
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

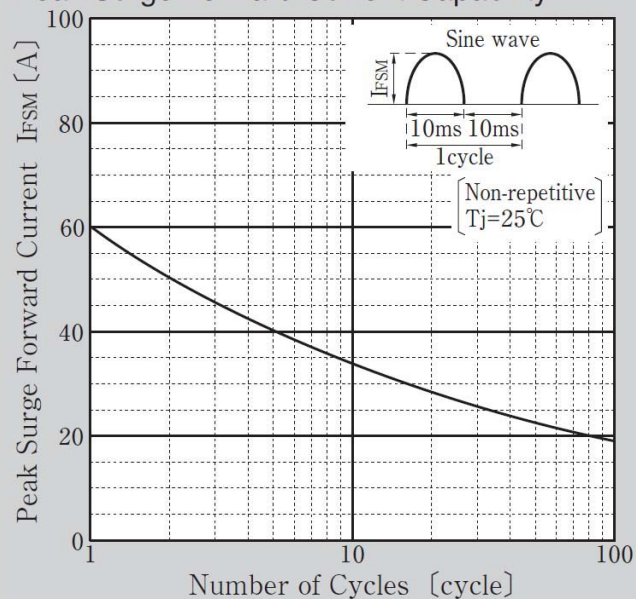
Forward Voltage



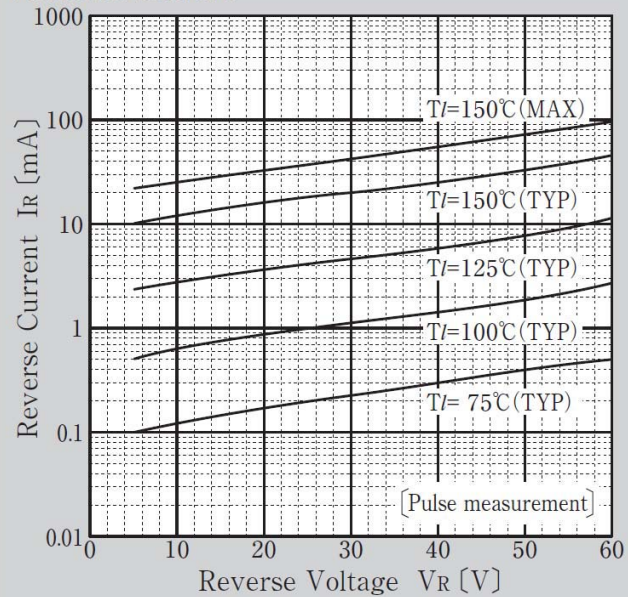
Forward Power Dissipation



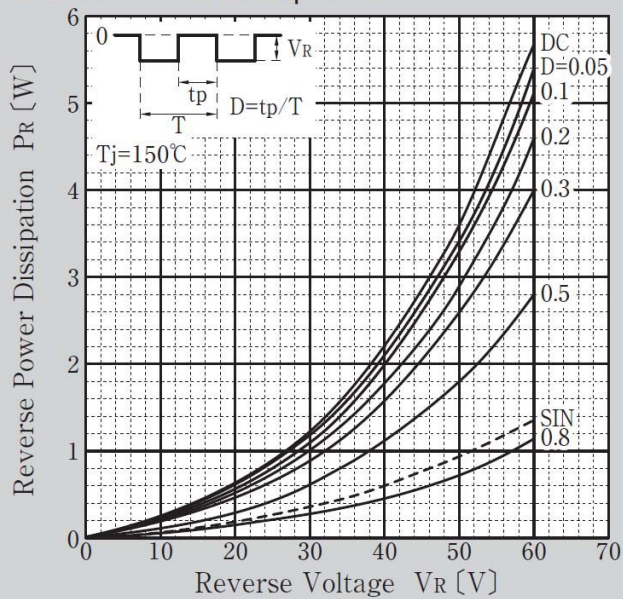
Peak Surge Forward Current Capability



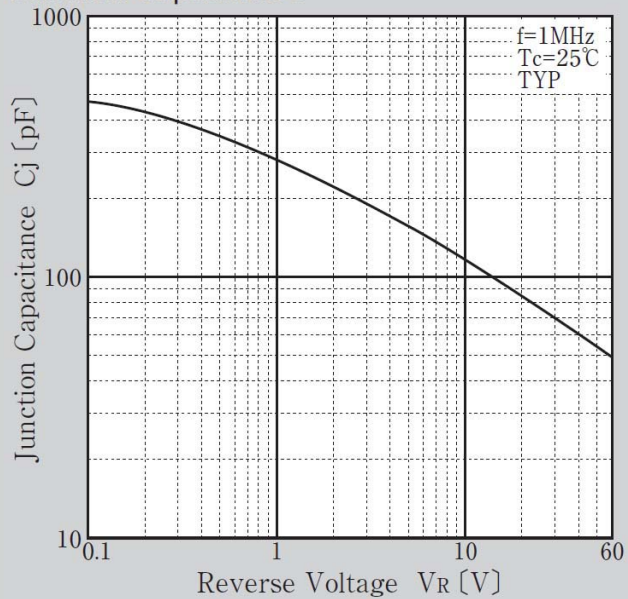
Reverse Current



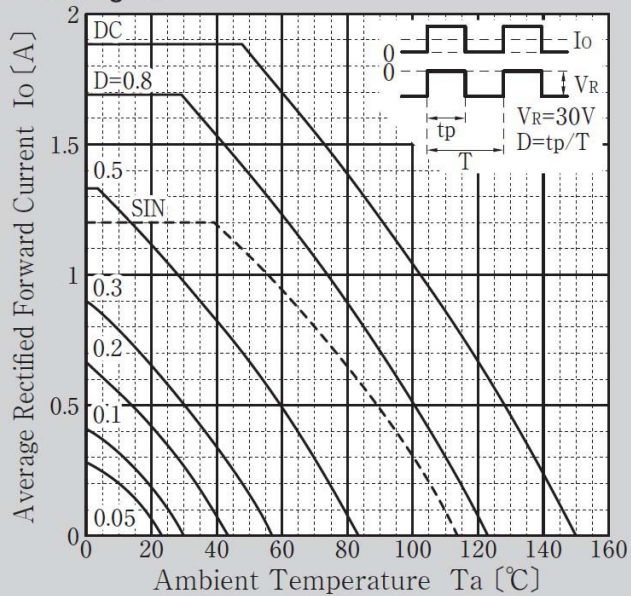
Reverse Power Dissipation



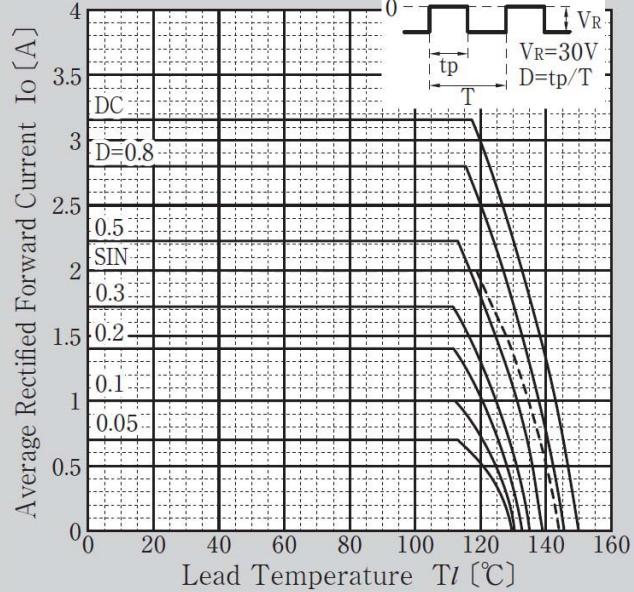
Junction Capacitance



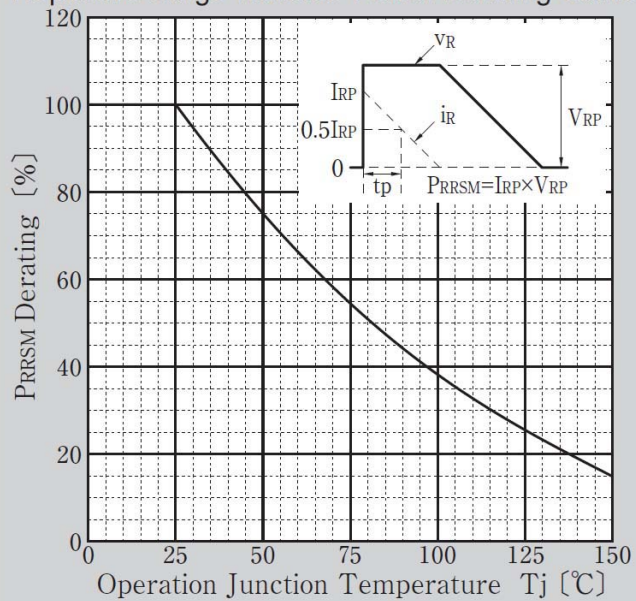
Derating Curve



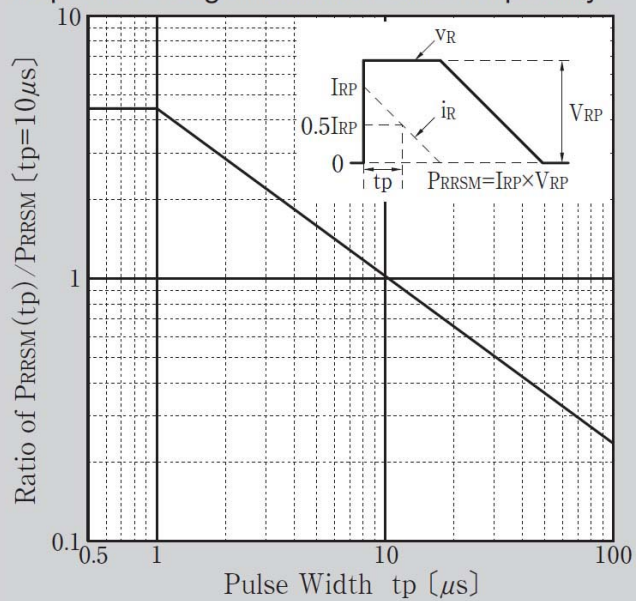
Derating Curve



Repetitive Surge Reverse Power Derating Curve

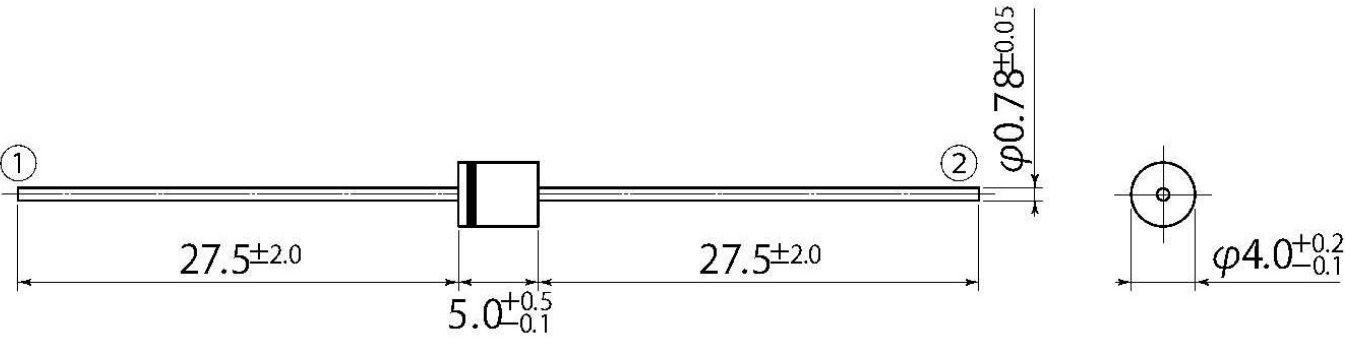


Repetitive Surge Reverse Power Capability



A4

JEDEC Code	—
JEITA Code	—
House Name	AX078



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