

D2S6M

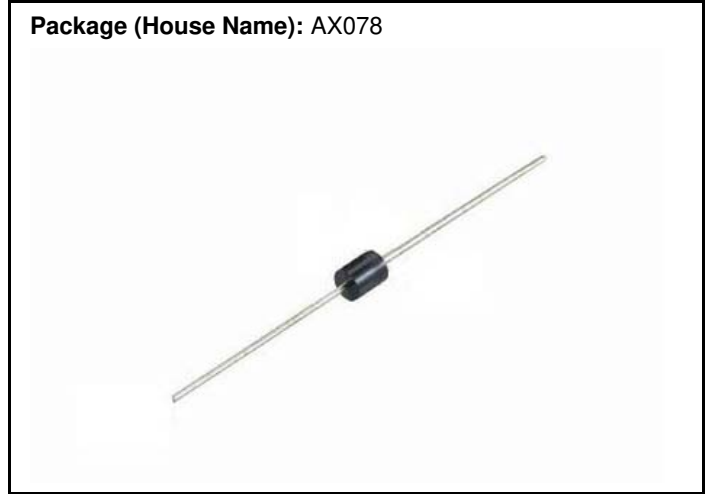
Schottky Barrier Diodes 60V, 2A

Feature

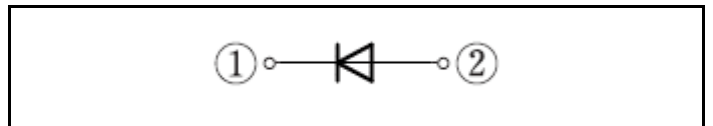
- High Recovery Speed
- Low V_F
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): AX078



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-40 to 150	°C
Junction temperature	T_j		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, $T_l=119^\circ C$	2	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, With heatsink, $T_a=25^\circ C$	1.2	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive, 1 cycle, Peak value, $T_j=25^\circ C$	60	A
Repetitive peak surge reverse power	P_{RRSM}	Pulse width 10 μs , $T_j=25^\circ C$	330	W

* :See the original Specifications

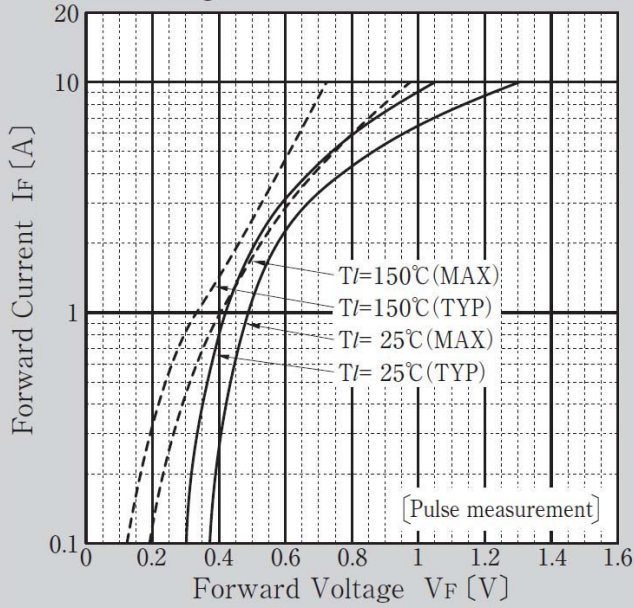
Electrical Characteristics (unless otherwise specified : Tl=25°C)

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

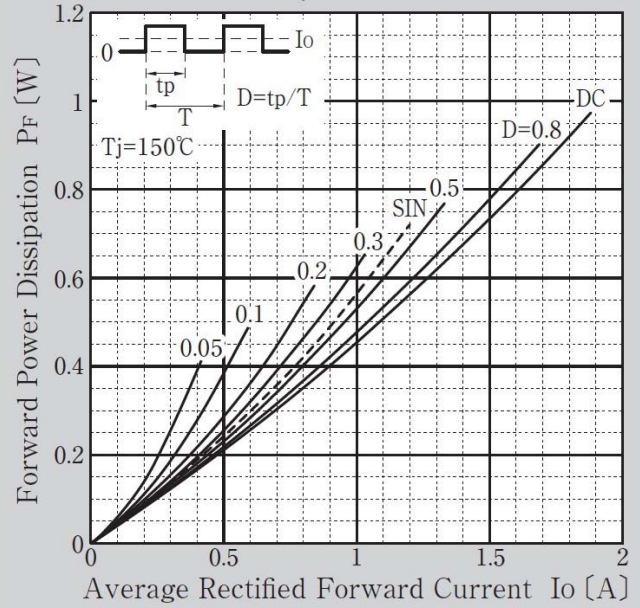
* :See the original Specifications

CHARACTERISTIC DIAGRAMS

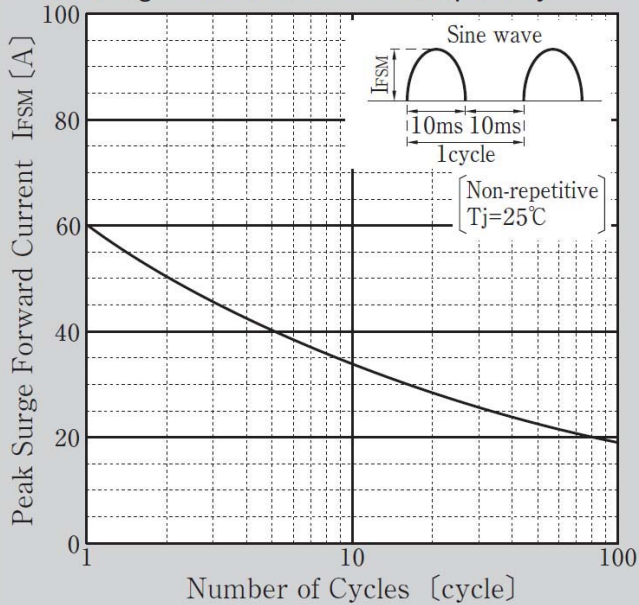
Forward Voltage



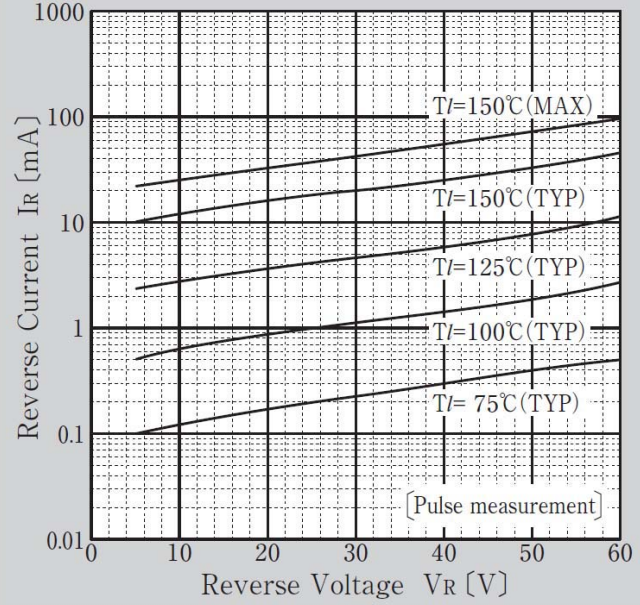
Forward Power Dissipation

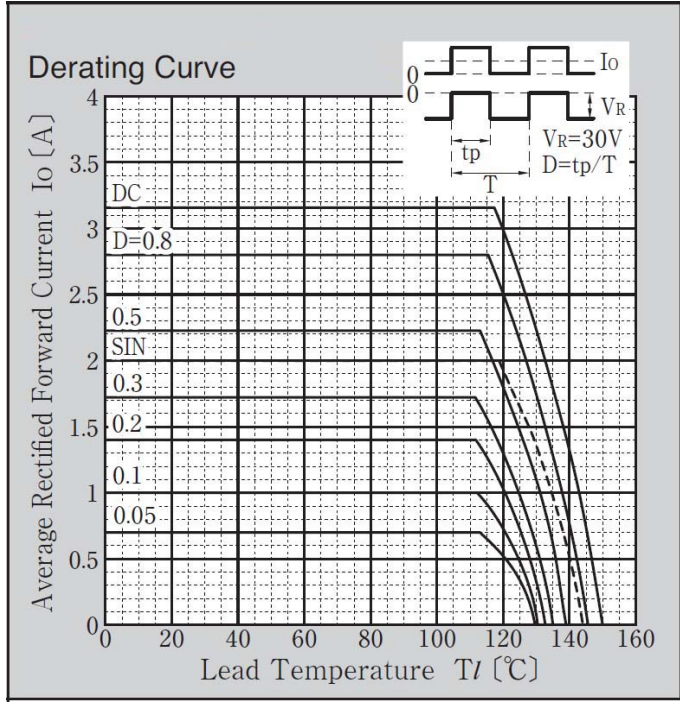
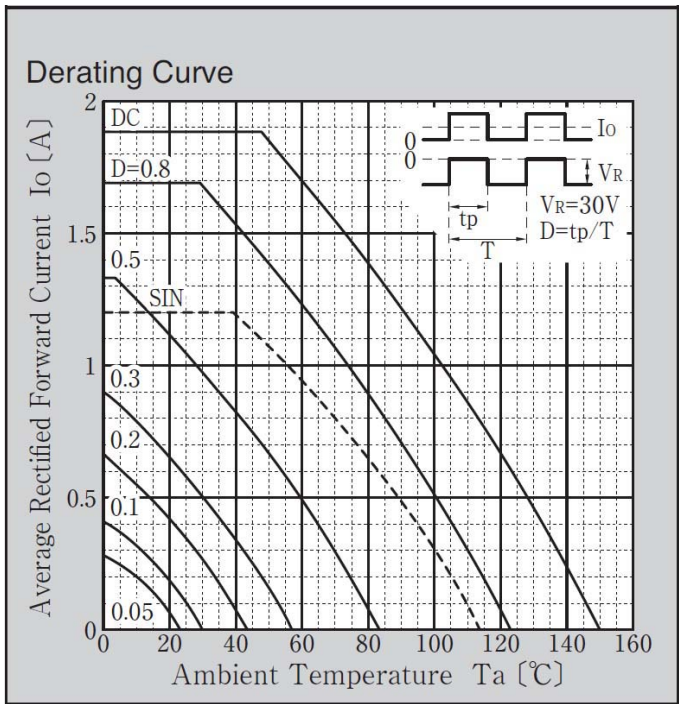
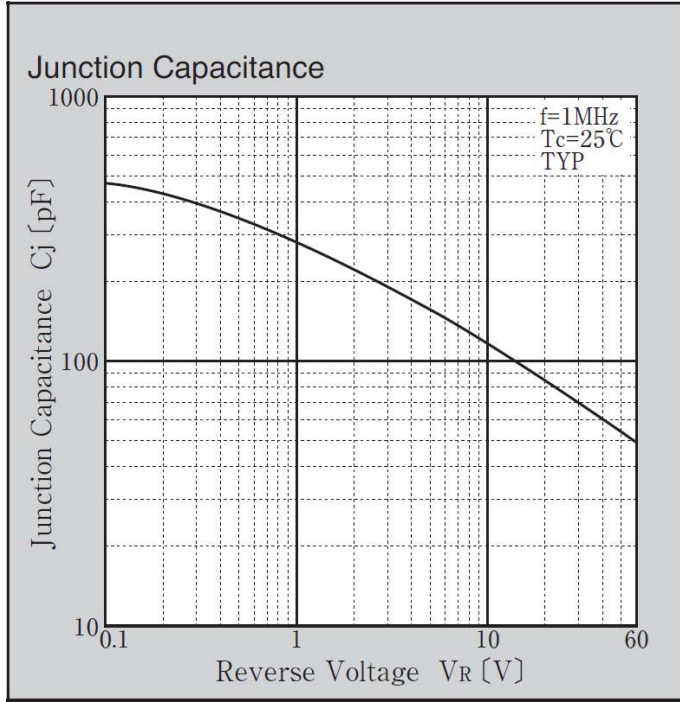
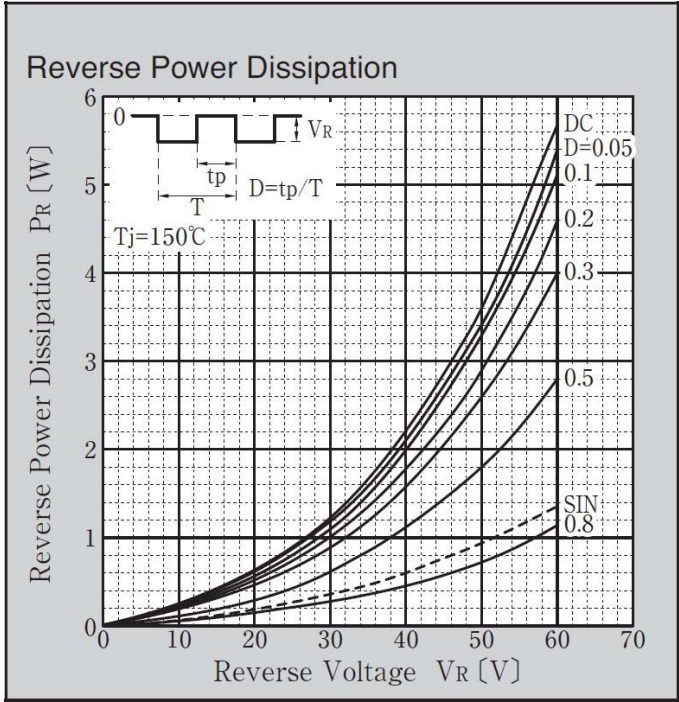


Peak Surge Forward Current Capability

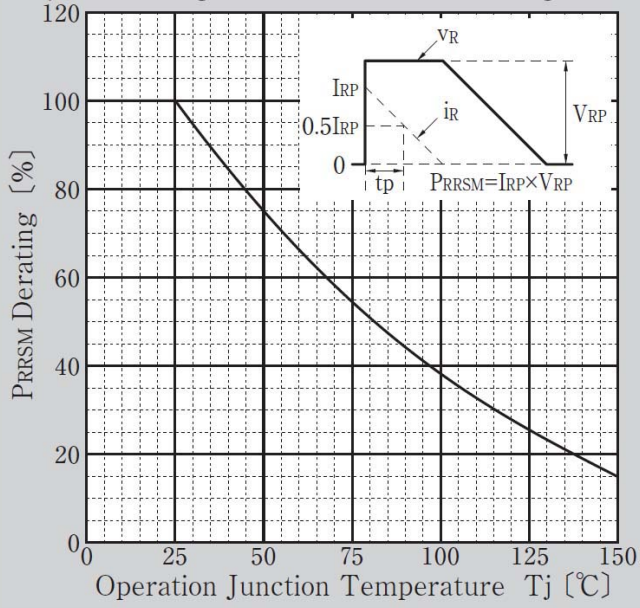


Reverse Current

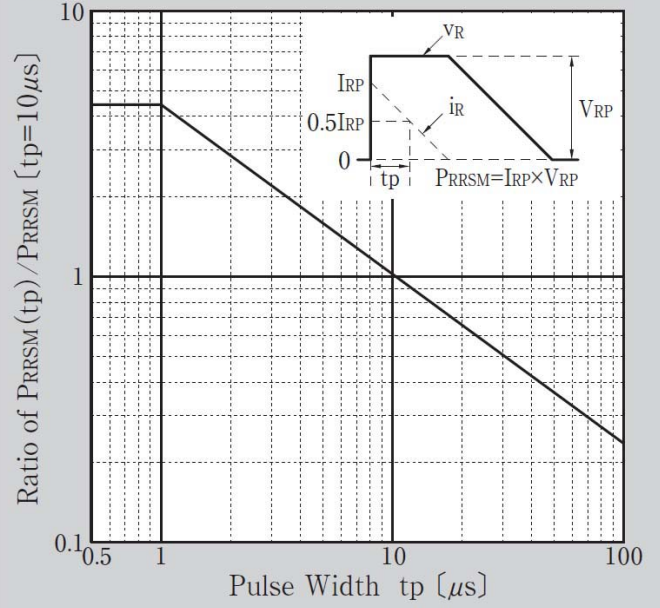




Repetitive Surge Reverse Power Derating Curve

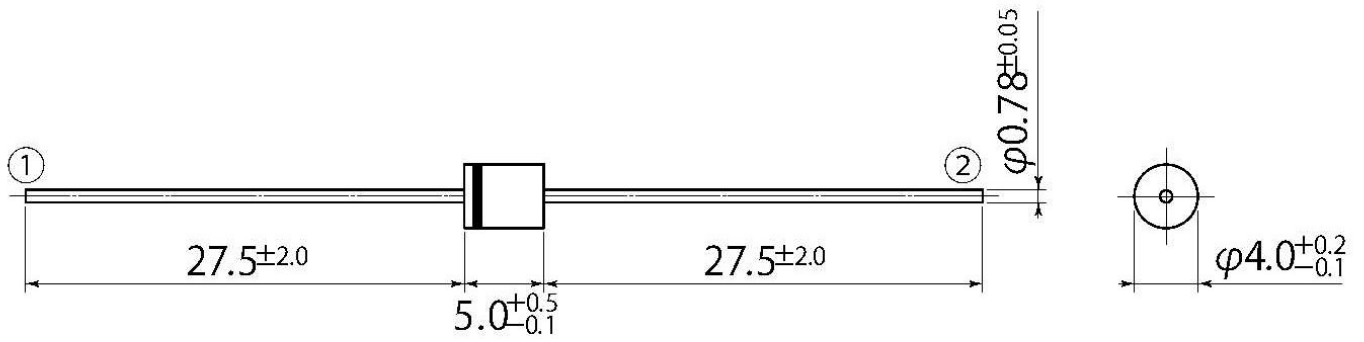


Repetitive Surge Reverse Power Capability



A4

JEDEC Code	—
JEITA Code	—
House Name	AX078



Notes

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