

D2S4M

Schottky Barrier Diodes 40V, 2A

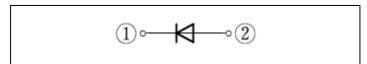
Feature

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

OUTLINE



Equivalent circuit



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

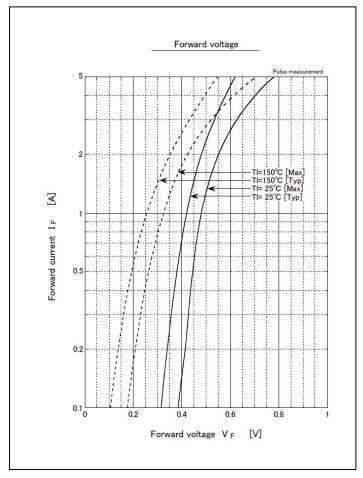
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		-40 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		40	V
Repetitive peak surge reverse voltage	V _{RRSM}	Pulse width 0.5ms, duty=1/40	45	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tl=122°C ※	2	Α
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Ta=36°C *	1.5	Α
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	60	А
Repetitive peak surge reverse power	P _{RRSM}	Pulse width 10μs, Tj=25°C	160	W

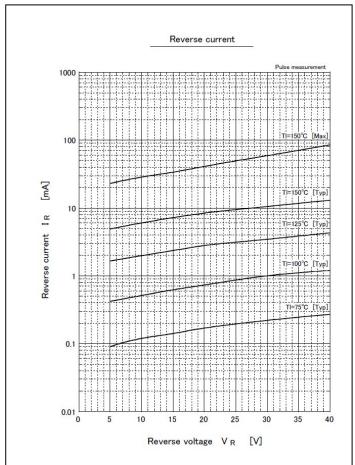
[※] ∶See the original Specifications

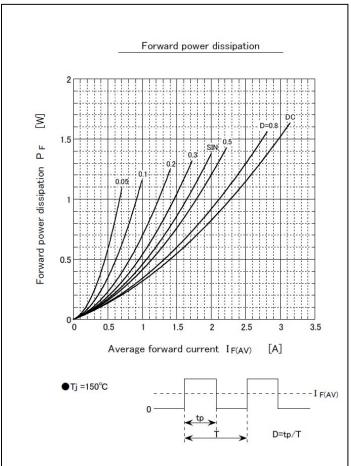
Electrical Characteristics (unless otherwise specified: Tl=25°C)

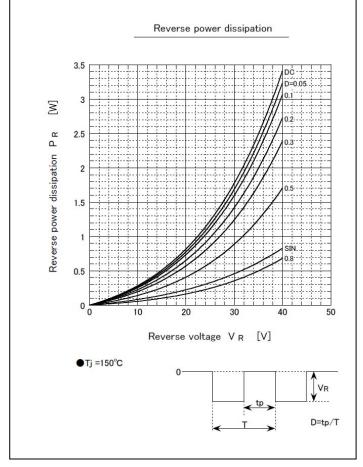
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Unit
Forward voltage	V_{F}	IF=2A, Pulse measurement			0.55	V
Reverse current	I _R	VR=40V, Pulse measurement			2	mA
Total capacitance	Ct	f=1MHz, VR=10V		95		pF
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			17	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			105	°C/W

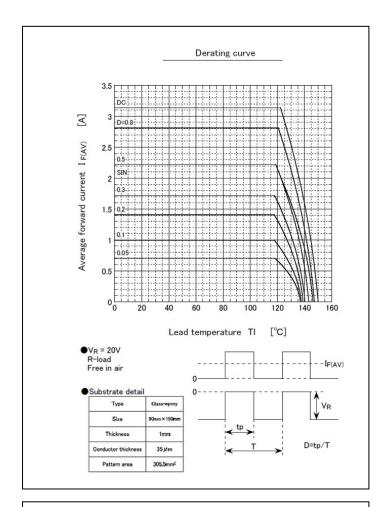
CHARACTERISTIC DIAGRAMS

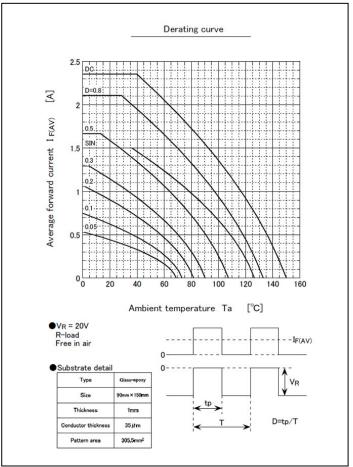


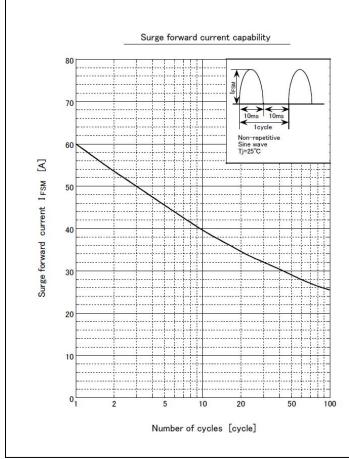


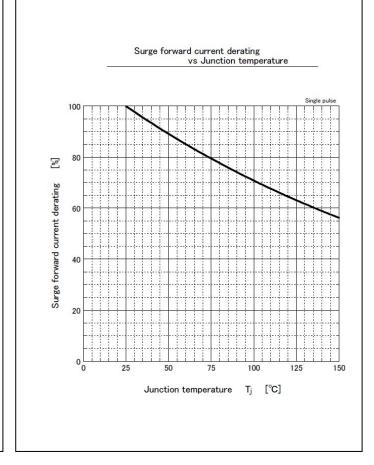


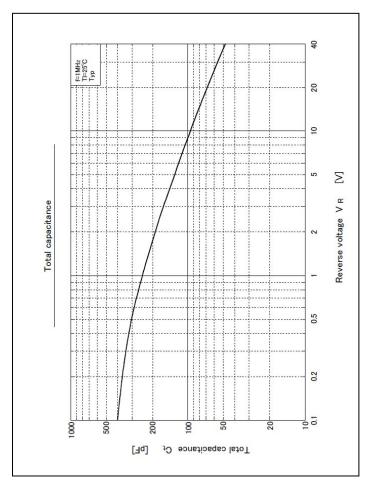


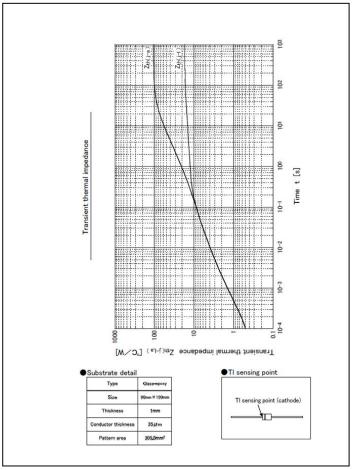


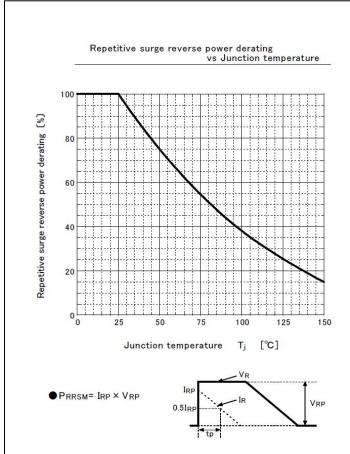


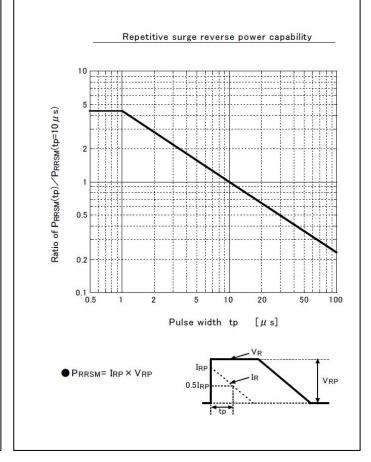










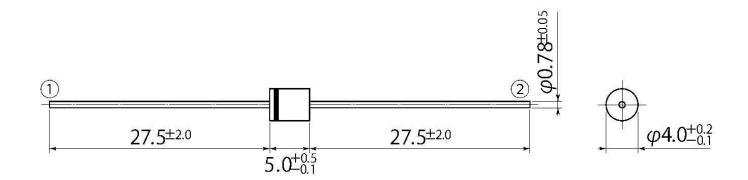


unit:mm

scale: 2/1



JEDEC Code	ī
JEITA Code	
House Name	AX078



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