

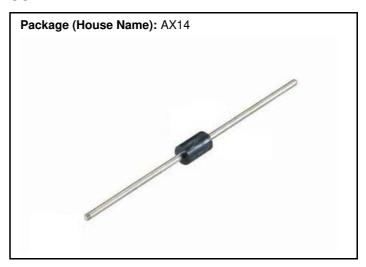
## **D3S6M**

# **Schottky Barrier Diodes 60V, 3A**

#### **Feature**

- · High Recovery Speed
- $\bullet \ Low \ V_F$
- 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	$V_{RRM}$		60	V
Repetitive peak surge reverse voltage	V <sub>RRSM</sub>	Pulse width 0.5ms, duty=1/40	65	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Tl=133°C *	3	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=57°C	1.8	Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=125°C	80	Α
Repetitive peak surge reverse power	P <sub>RRSM</sub>	Pulse width 10μs, Tj=25°C	330	W

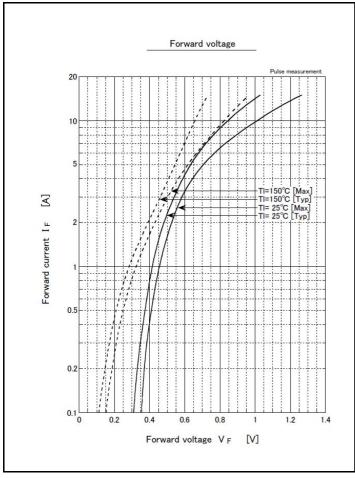
<sup>\* :</sup>See the original Specifications

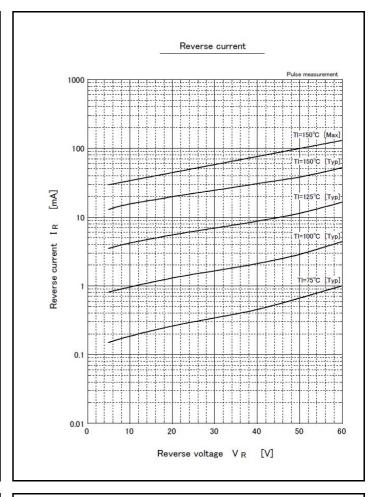
## **Electrical Characteristics** (unless otherwise specified : TI=25°C)

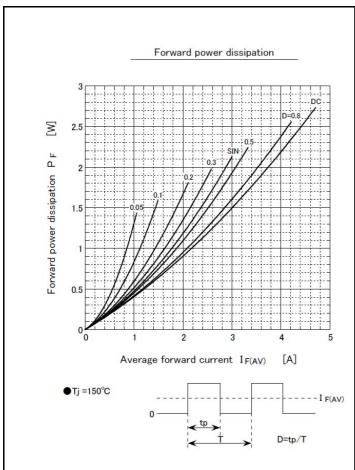
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Oint
Forward voltage	$V_{F}$	IF=3A, Pulse measurement			0.58	V
Reverse current	I <sub>R</sub>	VR=60V, Pulse measurement			2.5	mA
Total capacitance	Ct	f=1MHz, VR=10V		130		pF
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			6.5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			62	°C/W

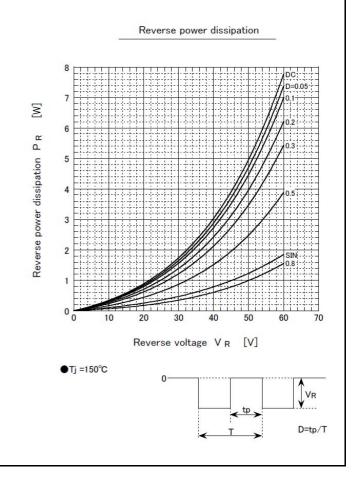
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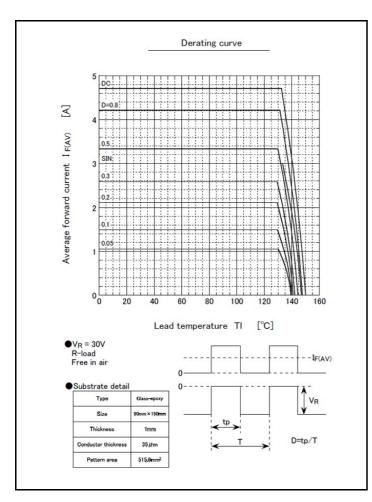
## **CHARACTERISTIC DIAGRAMS**

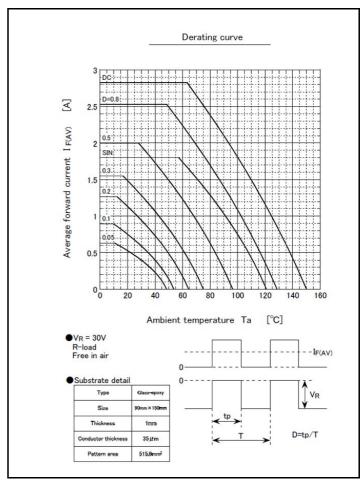


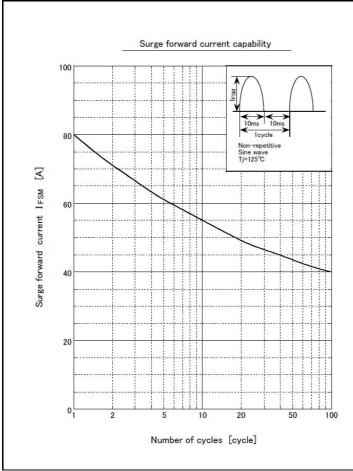


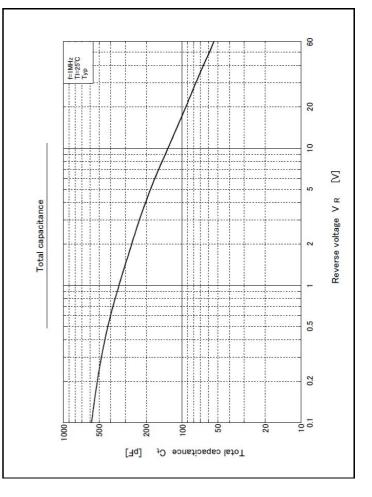


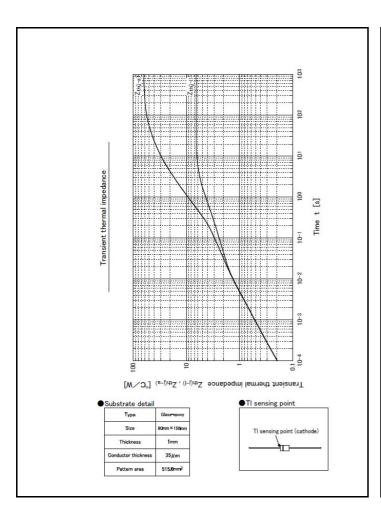


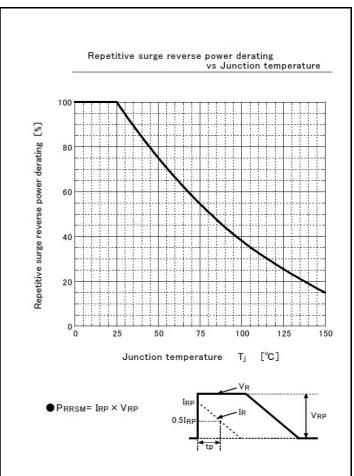


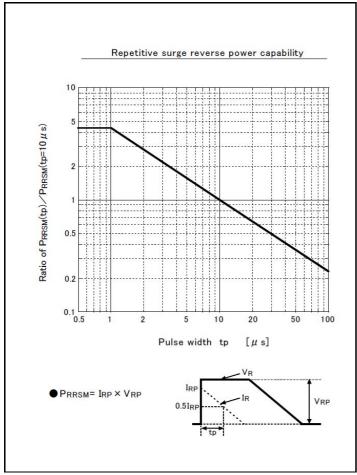










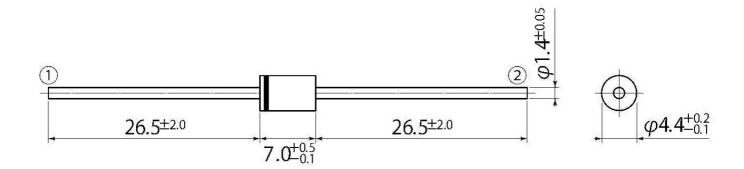


unit:mm

scale: 2/1

A7

JEDEC Code	_	
JEITA Code	1	
House Name	AX14	



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