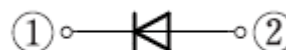


D1NF60**Fast Recovery Diodes****600V, 0.8A****Feature**

- High Voltage
- Low Noise
- Pb free terminal
- RoHS:Yes

OUTLINE**Package (House Name):** AX057**Equivalent circuit****Absolute Maximum Ratings** (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-55 to 150	°C
Junction temperature	T _j		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C	0.8	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, T _j =25°C	50	A

※ : See the original Specifications

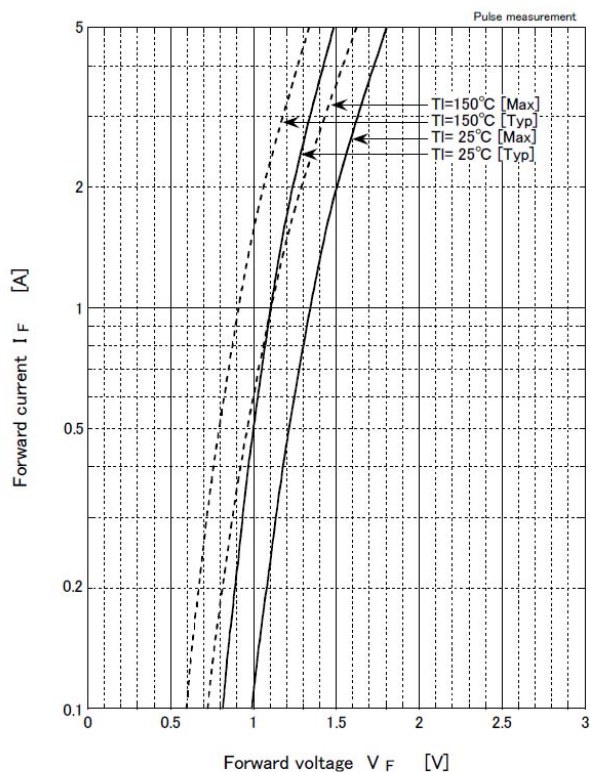
Electrical Characteristics (unless otherwise specified : Tl=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	I _F =0.8A, Pulse measurement			1.3	V
Reverse current	I _R	V _R =600V, Pulse measurement			10	μA
Reverse recovery time	t _{rr}	I _F =0.5A, I _R =1.0A, 0.1I _R			400	ns
Total capacitance	C _t	f=1MHz, V _R =10V		7		pF
Thermal resistance	R _{th(j-l)}	Junction to lead, On glass-epoxy substrate			10	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient, On glass-epoxy substrate			113	°C/W

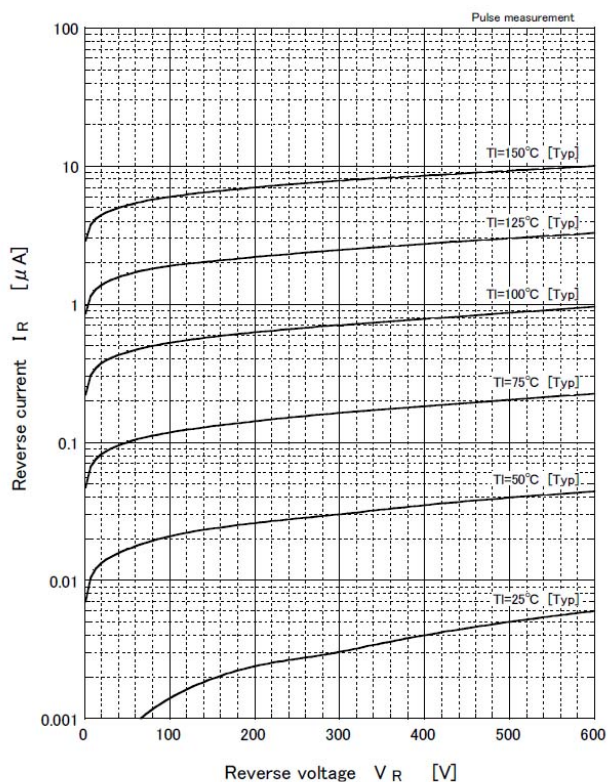
※ : See the original Specifications

CHARACTERISTIC DIAGRAMS

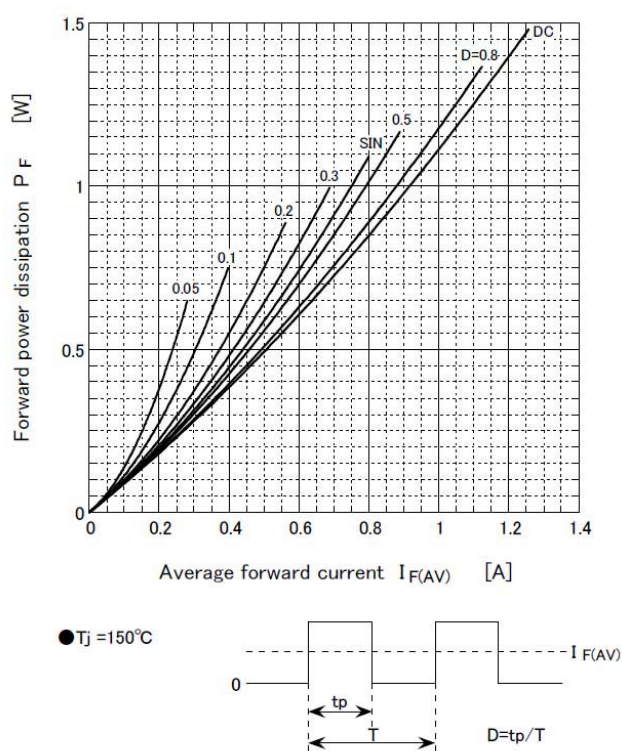
Forward voltage



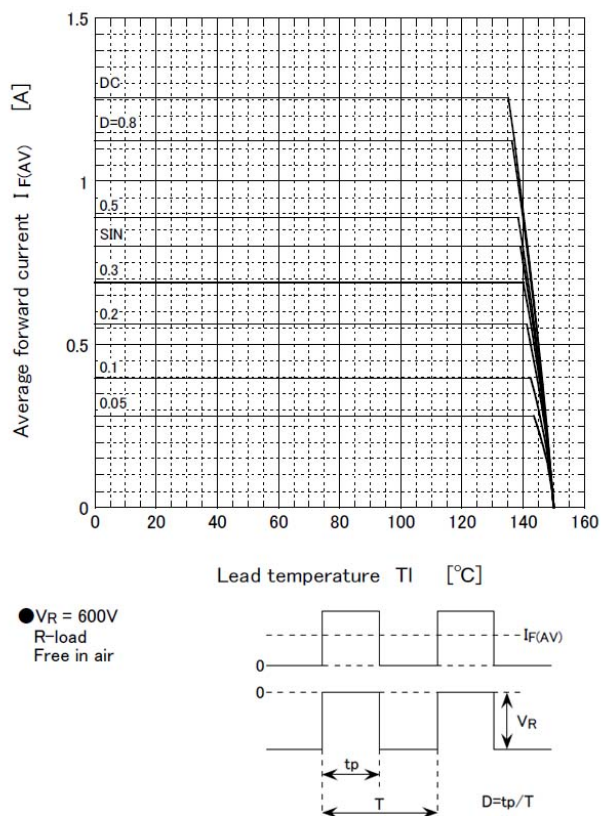
Reverse current



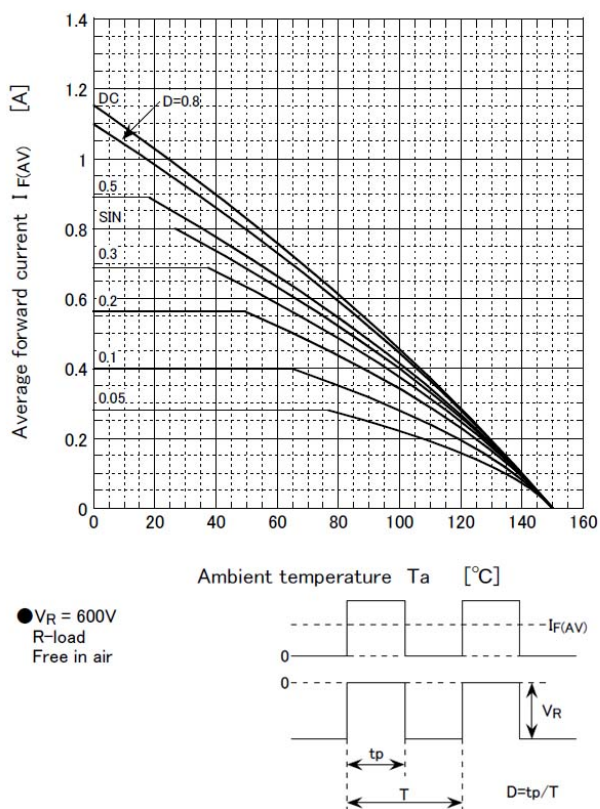
Forward power dissipation



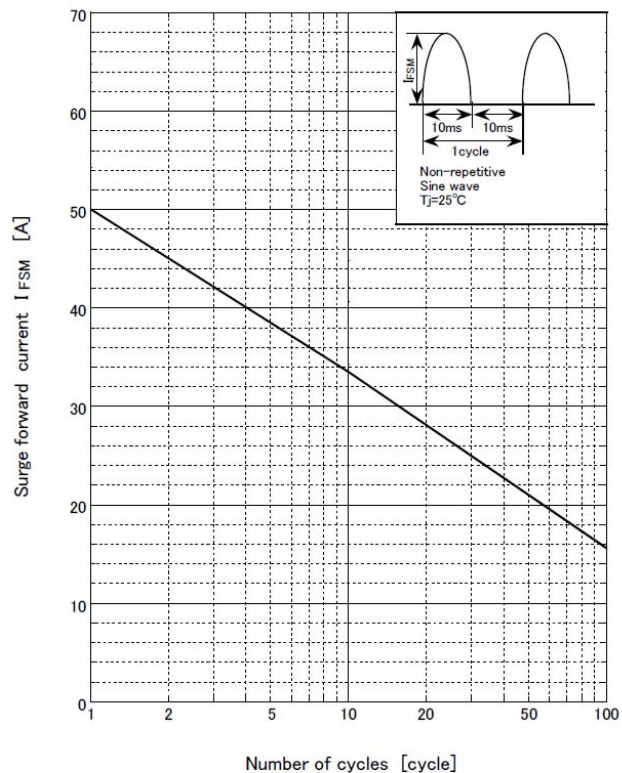
Derating curve



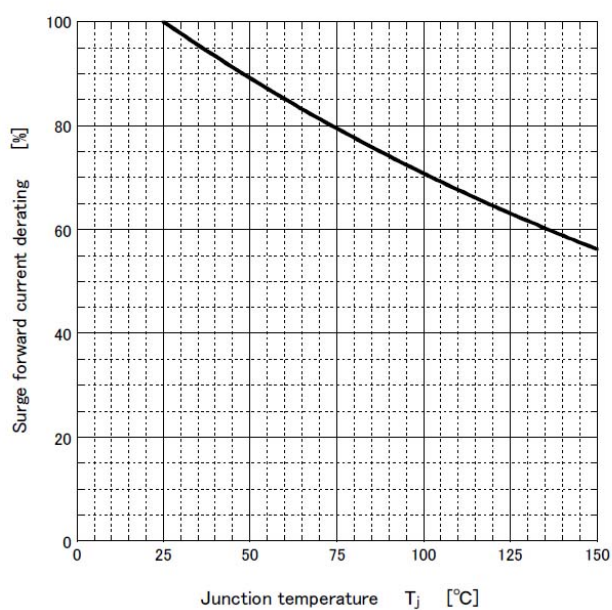
Derating curve



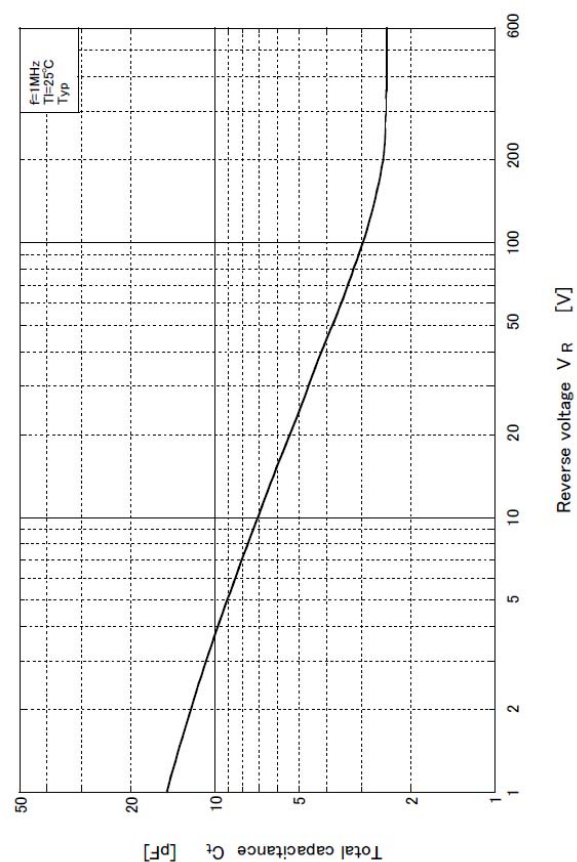
Surge forward current capability



Surge forward current derating vs Junction temperature

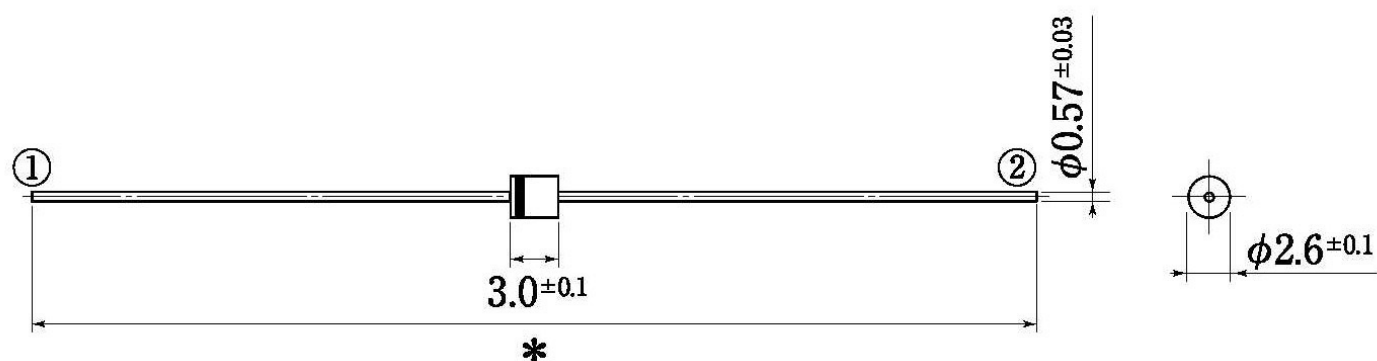


Total capacitance



A1

JEDEC Code	—
JEITA Code	—
House Name	AX057



* $\left(\begin{array}{l} 26.0^{+1.5}_{-0.0} \text{ (Spec Code: 5070)} \\ 52.0^{+2.0}_{-1.0} \text{ (Spec Code: 5060)} \end{array} \right)$

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