

D1NF60

Fast Recovery Diodes 600V, 0.8A

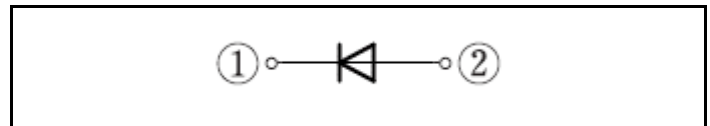
Feature

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

OUTLINE



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, T _a =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

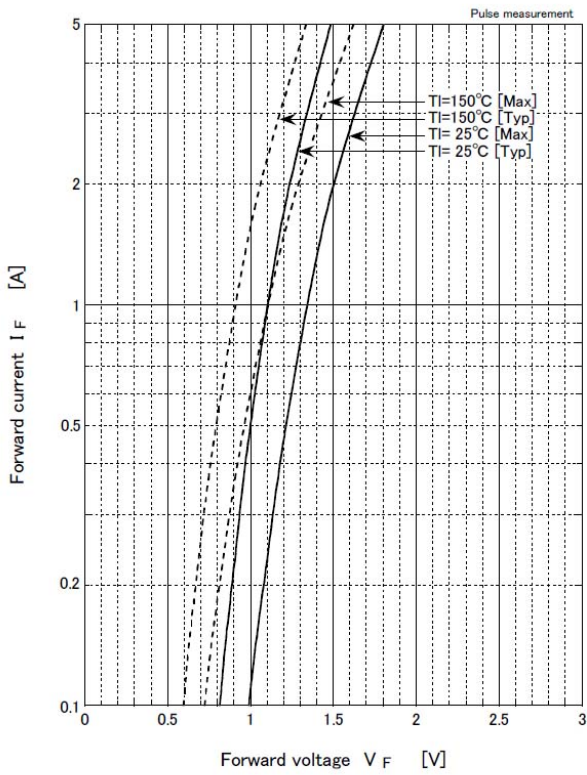
Electrical Characteristics (unless otherwise specified : Tl=25°C)

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, 0.1IR			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

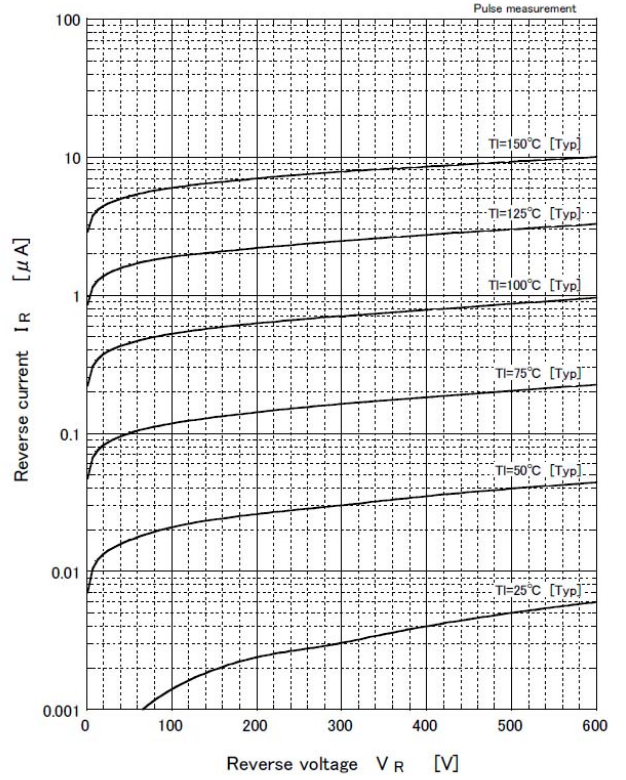
* : See the original Specifications

CHARACTERISTIC DIAGRAMS

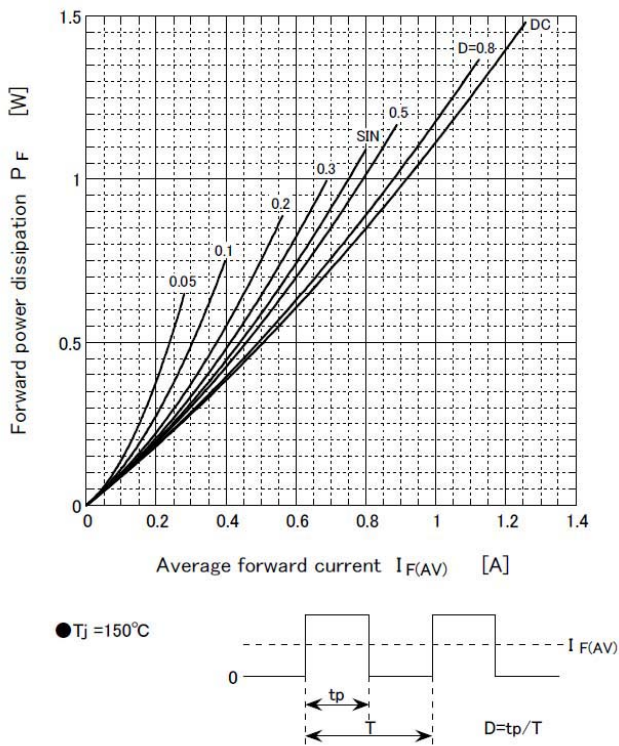
Forward voltage



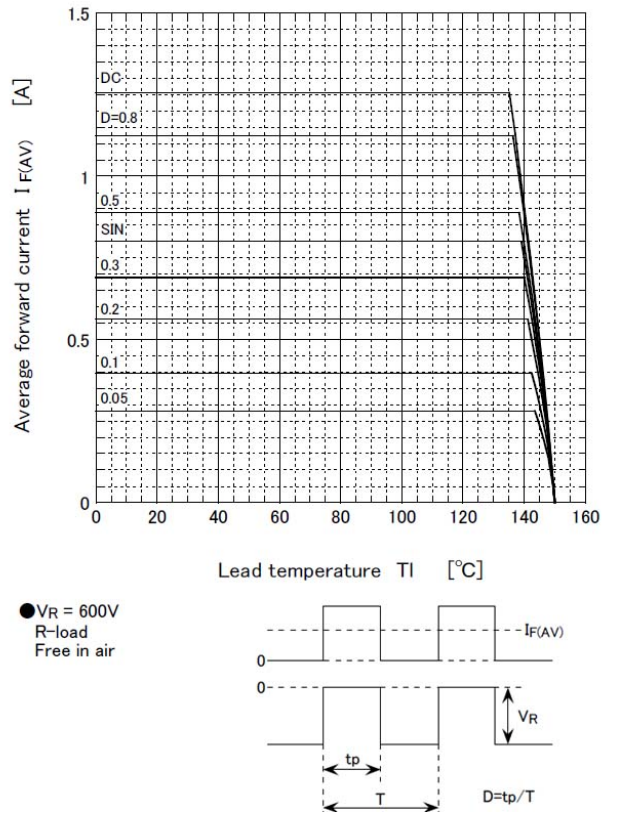
Reverse current



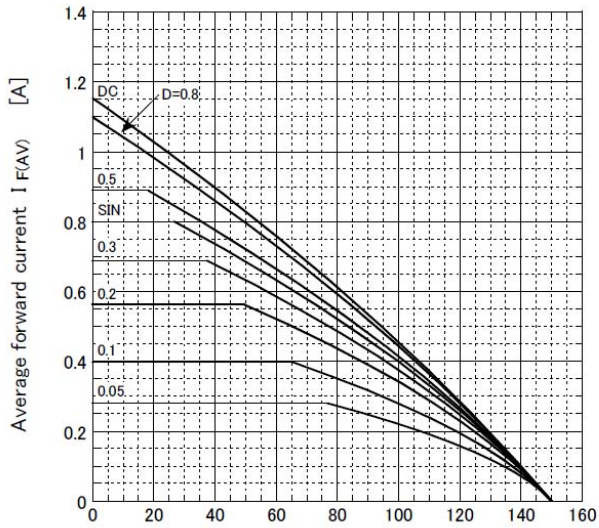
Forward power dissipation



Derating curve

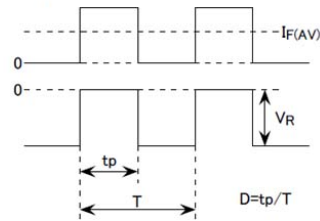


Derating curve

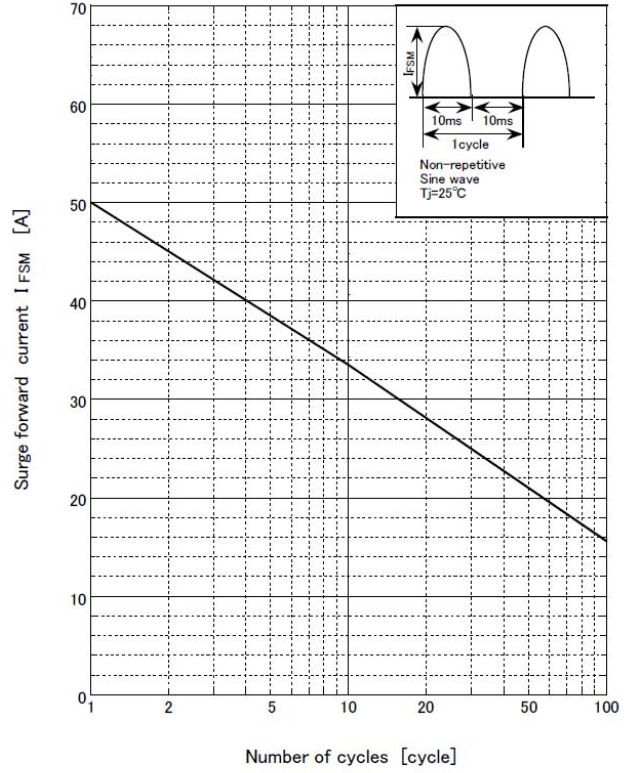


Ambient temperature T_a [°C]

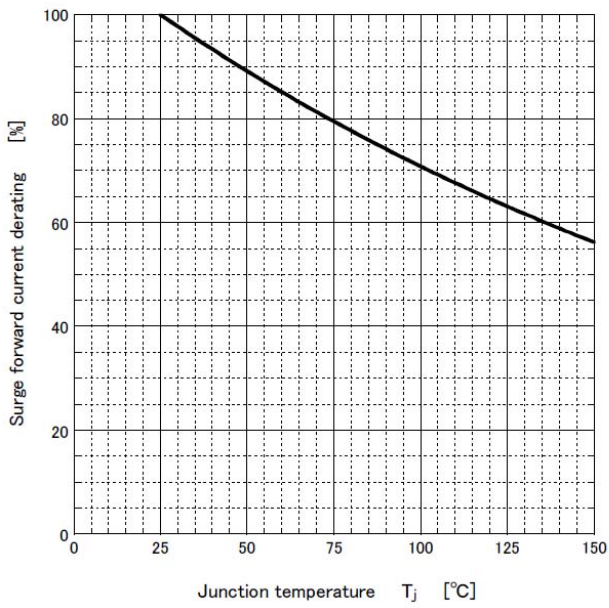
● $V_R = 600V$
R-load
Free in air



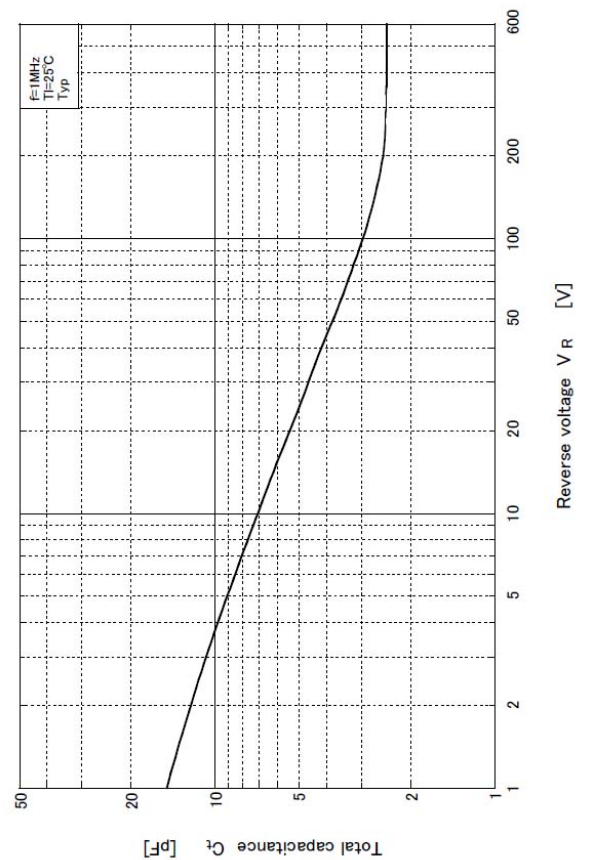
Surge forward current capability



Surge forward current derating vs Junction temperature



Total capacitance



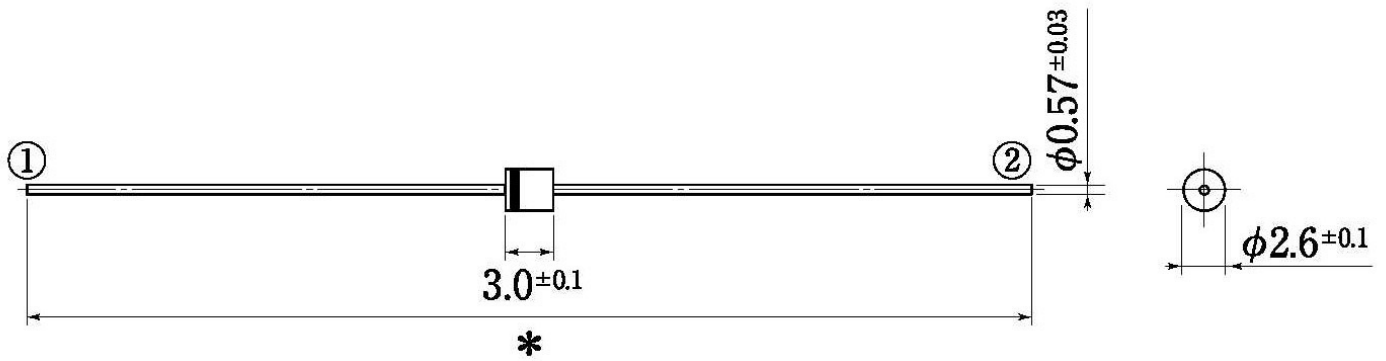
Outline Dimensions

unit:mm

scale: 2/1

A1

JEDEC Code	—
JEITA Code	—
House Name	AX057



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

Notes

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