D1FE60

General Rectifying Diodes 600V, 1.0A

Feature

- Small SMD
- High ESD Capability
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

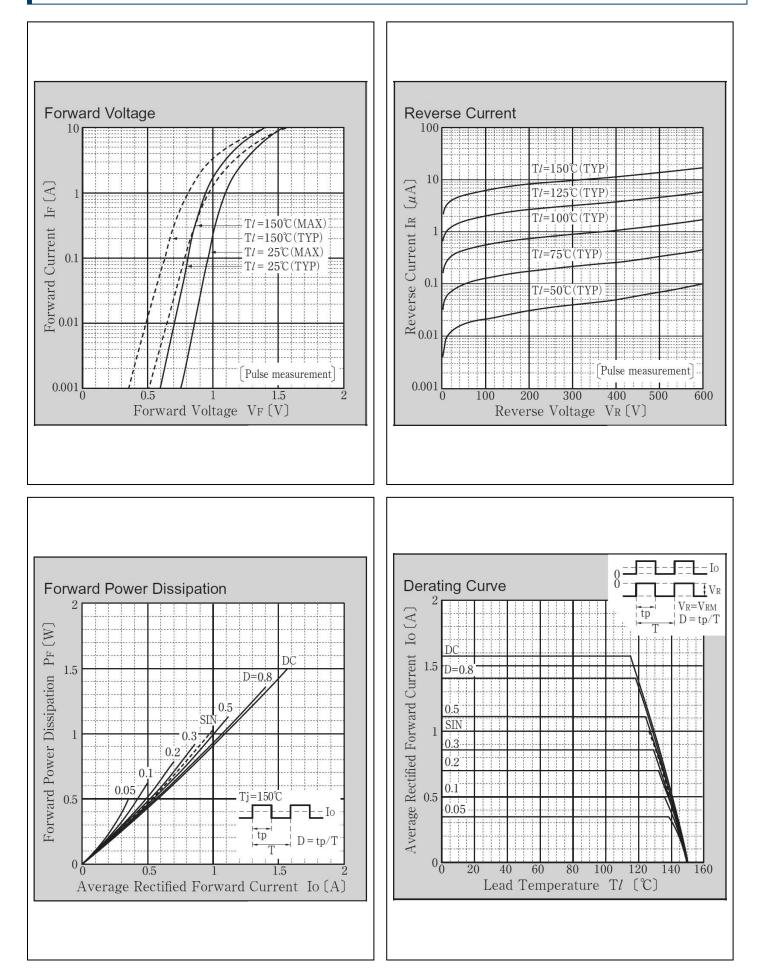
ltem	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		600	v
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Tl=126°C	1	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C ※	1	A
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, Tj=25°C	30	A
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, Tj=25℃	70	A

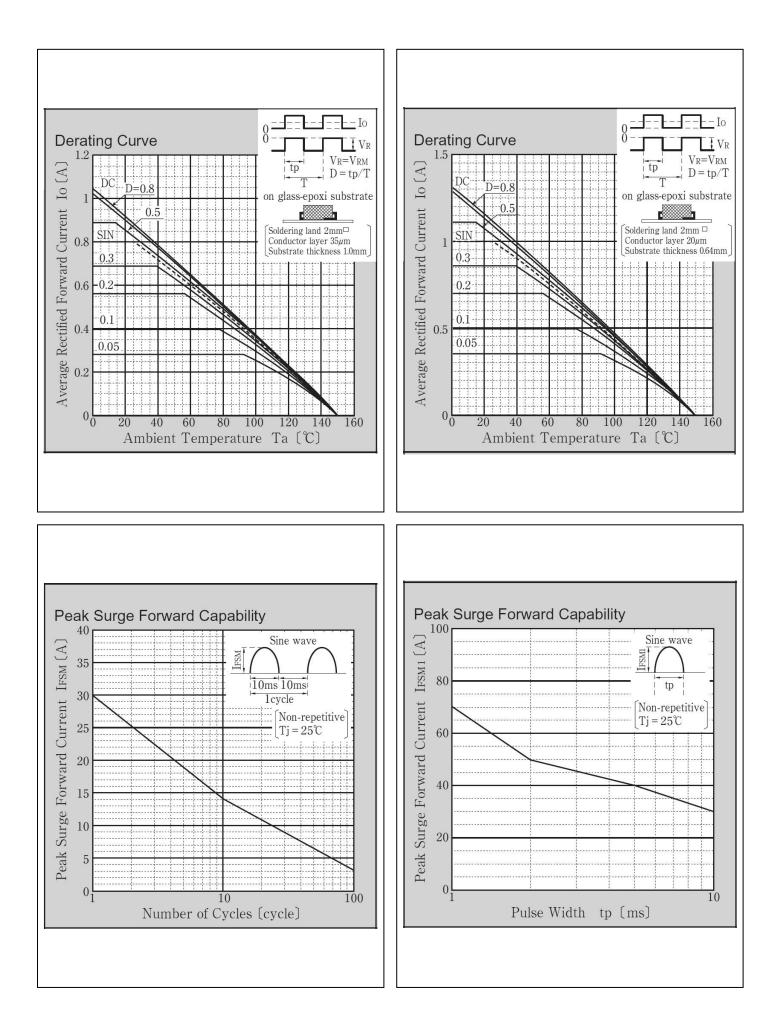
%: See the original Specifications

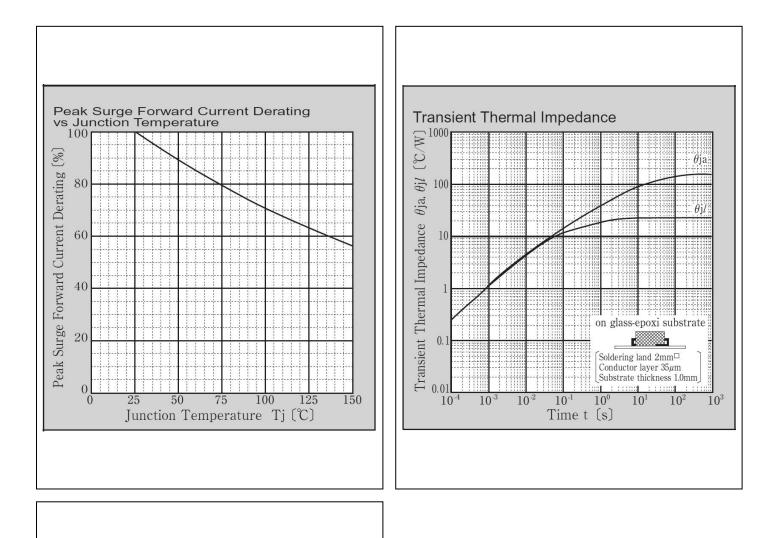
Electrical Characteristics (unless otherwise specified : Tl=25°C)									
Item	Symbol	Conditions	Ratings			11-24			
			MIN	ТҮР	MAX	Unit			
Forward voltage	V _F	IF=1A, Pulse measurement			1.1	۷			
Reverse current	I _R	VR=600V, Pulse measurement			10	μA			
Electro static dischange Capability	V _{ESD}	C=150pF, R=150 Ω , Polarity \pm , Aerial discharge		25		kV			
Thermal resistance	Rth(j-l)	Junction to lead			23	°C/W			
Thermal resistance	Rth(j-a)	Junction to ambient, On alumina substrate ※			108	°C/W			
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			157	°C/W			

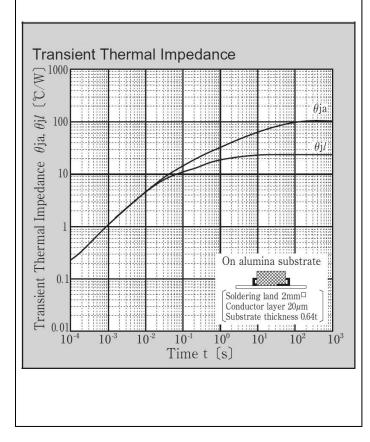
※ ∶See the original Specifications

CHARACTERISTIC DIAGRAMS





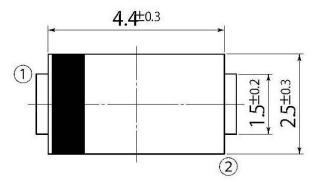


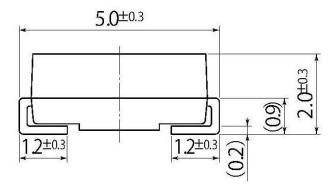


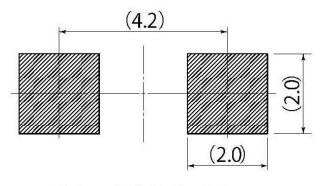
unit:mm

scale: 10/1

B3	JEDEC Code	DO-214AC
	JEITA Code	
	House Name	1F, CF

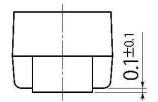






Referential Soldering Pad

• Optimize soldering pad to the board design and soldering condition.



Notes

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[Special applications]

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[Specific applications]

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