

LN1F60

General Rectifying Diodes
600V, 1.1A

Feature

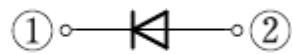
- Small SMD
- Low Noise
- Low VF
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1F
Package (JEDEC Code): DO-214AC



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : $T_{l}=25^{\circ}\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-55 to 150	$^{\circ}\text{C}$
Junction temperature	T_j		-55 to 150	$^{\circ}\text{C}$
Repetitive peak reverse voltage	V_{RRM}		600	V
Average forward current	$I_{F(AV)}$	50Hz sine wave, Resistance load, On alumina substrate, $T_a=25^{\circ}\text{C}$ \ddagger	1.1	A
Average forward current	$I_{F(AV)}$	50Hz sine wave, Resistance load, On glass-epoxy substrate, $T_a=25^{\circ}\text{C}$ \ddagger	0.8	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}\text{C}$	25	A
Surge forward current	I_{FSM1}	$t_p=1\text{ms}$, sine wave, Non-repetitive, peak value, $T_j=25^{\circ}\text{C}$	80	A

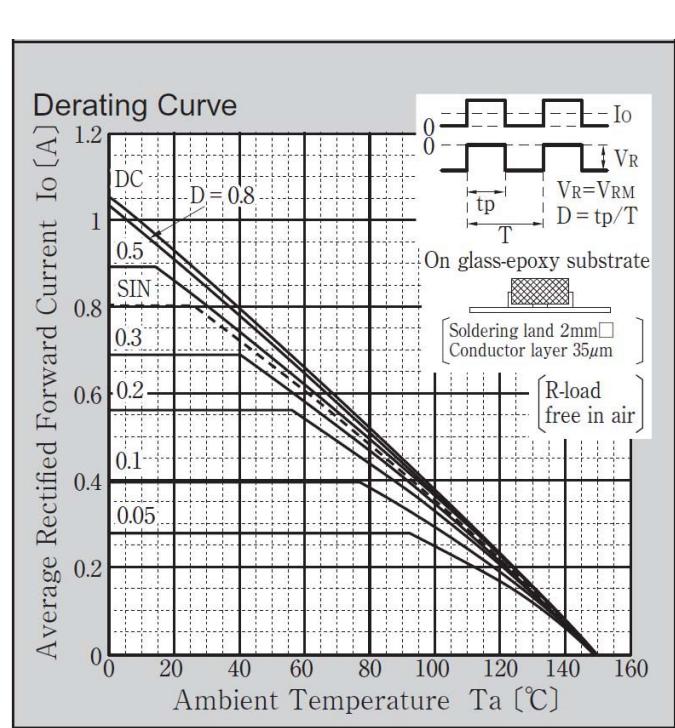
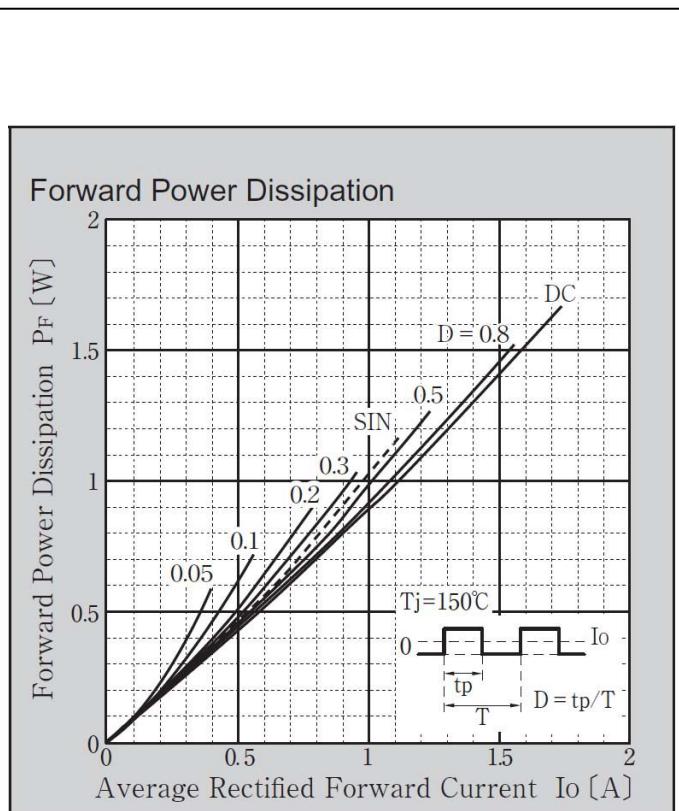
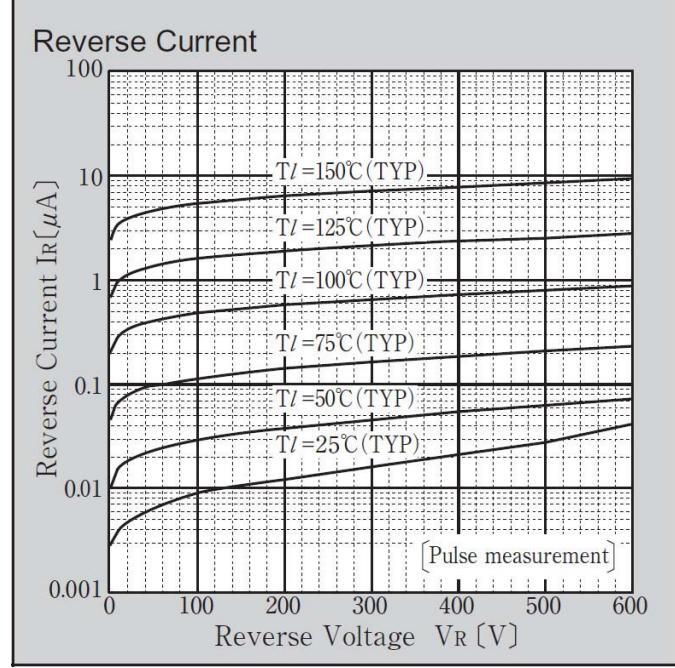
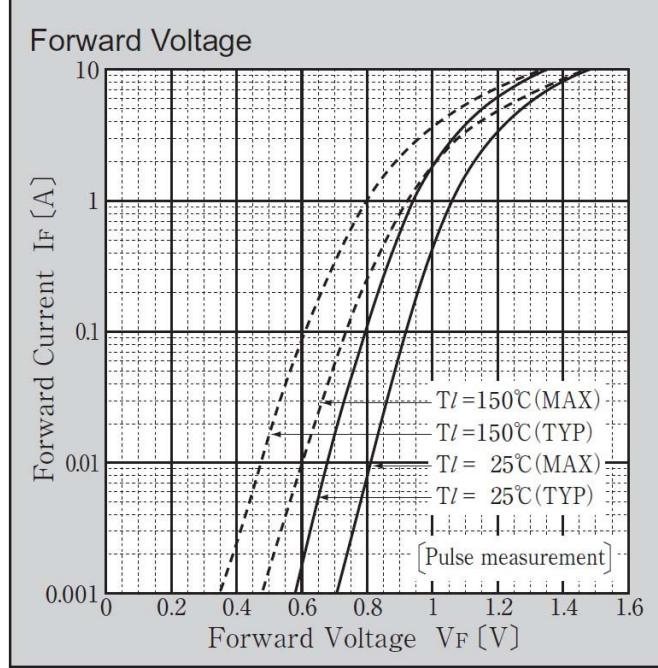
\ddagger : See the original Specifications

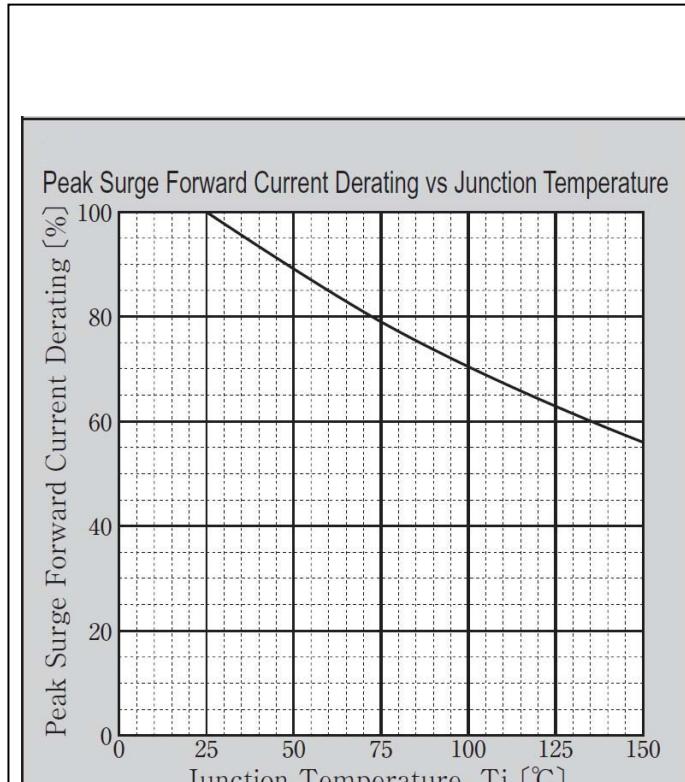
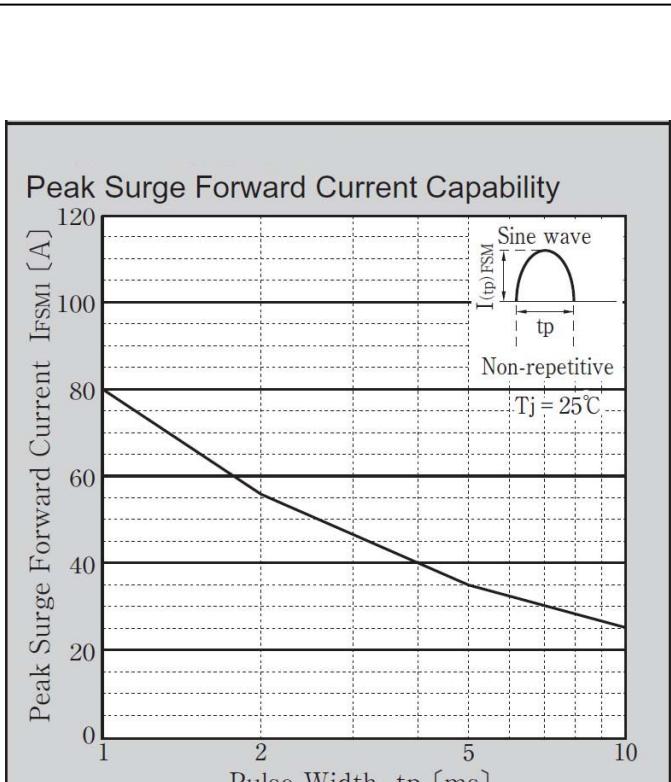
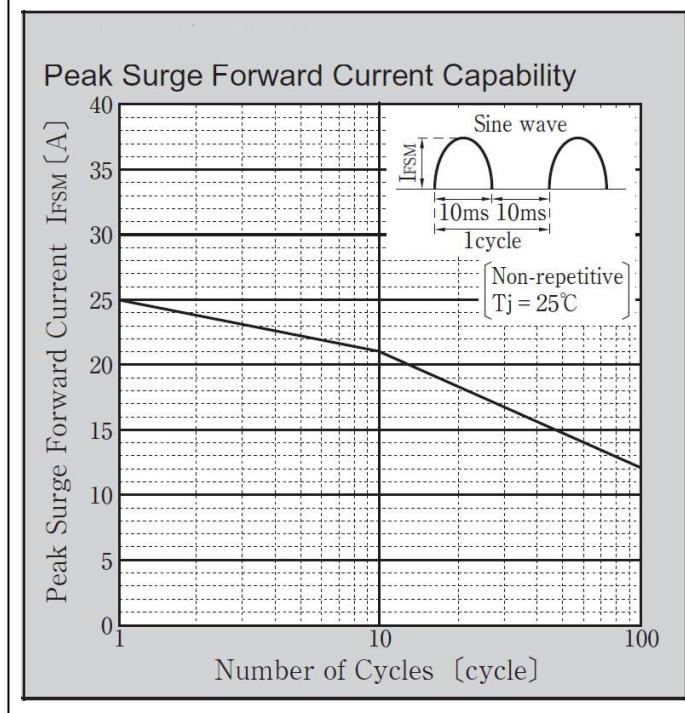
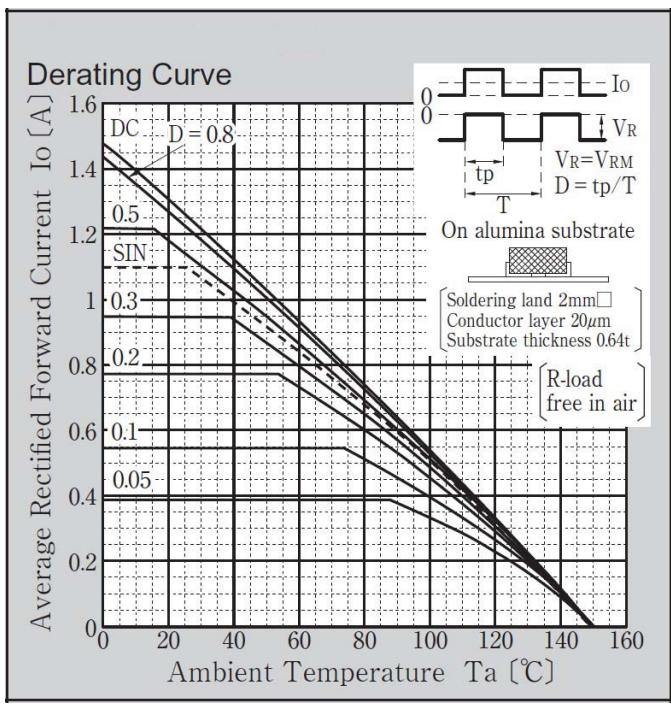
Electrical Characteristics (unless otherwise specified : Tl=25°C)

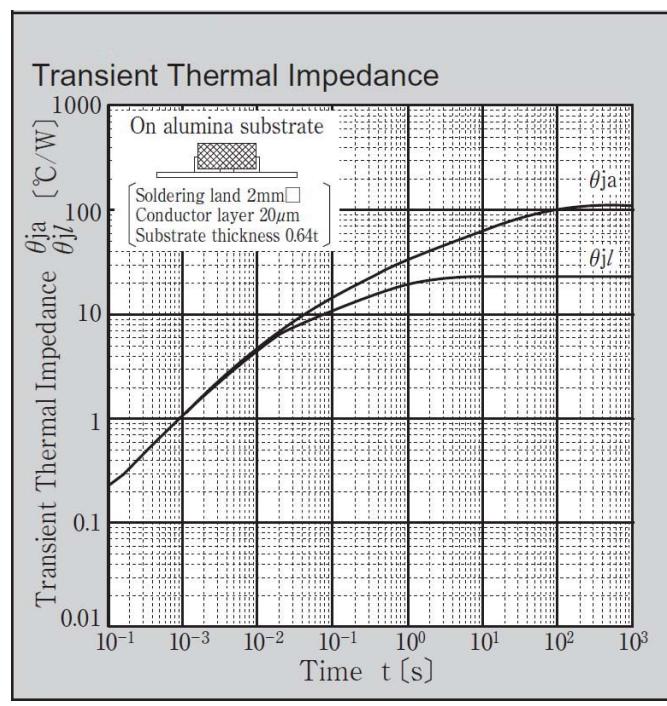
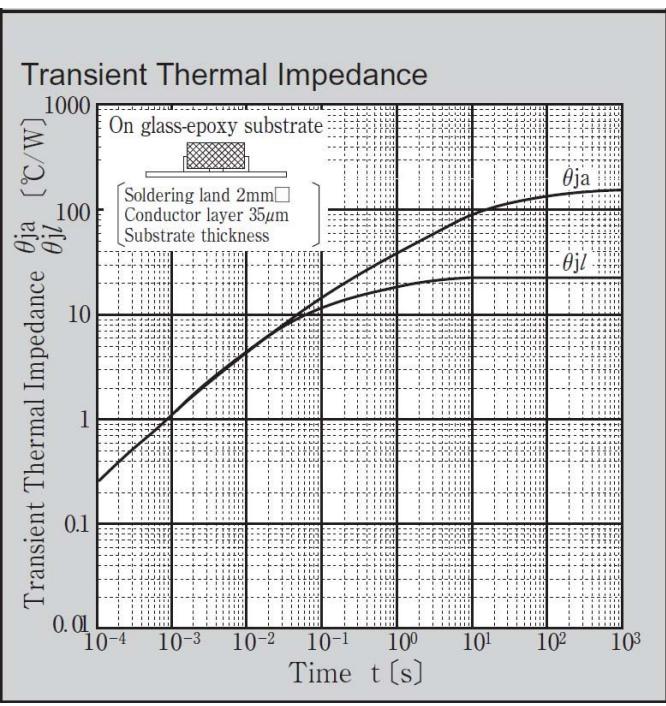
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=0.8A, Pulse measurement			1.05	V
Reverse current	I_R	VR=600V, Pulse measurement			10	μA
Reverse recovery time	t_{rr}	IF=0.1A, $I_R=0.1A$, 0.1IR			3.5	μs
Thermal resistance	$R_{th(j-l)}$	Junction to lead			23	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On alumina substrate \ddagger			108	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, On glass-epoxy substrate \ddagger			157	$^{\circ}C/W$

\ddagger :See the original Specifications

CHARACTERISTIC DIAGRAMS







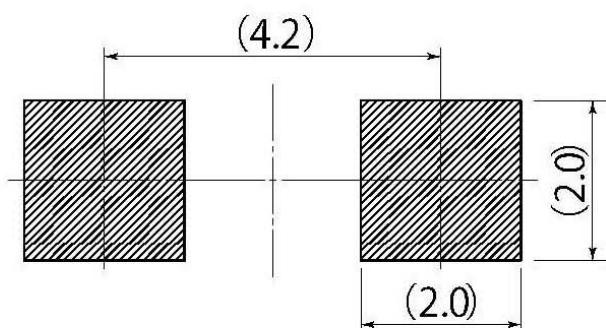
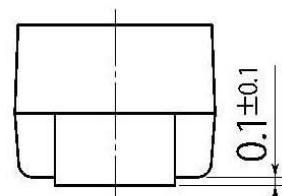
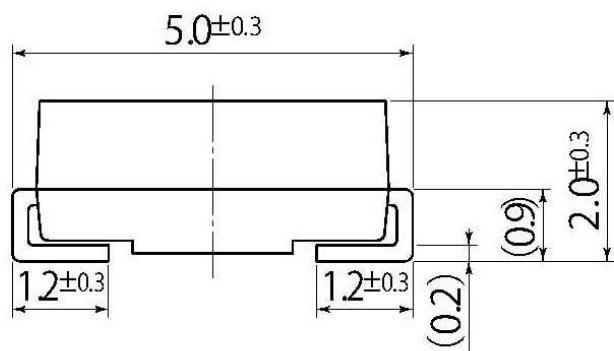
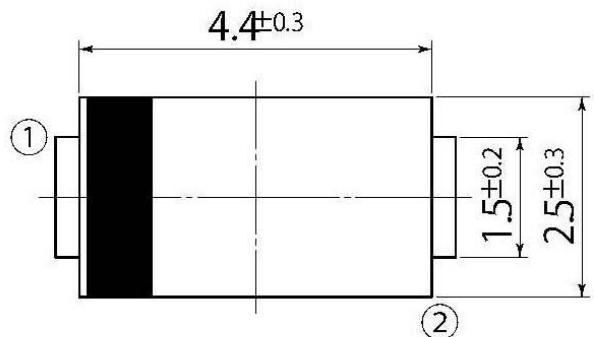
Outline Dimensions

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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