

D1FK120

Fast Recovery Diodes
1200V, 1A

Feature

- Small SMD
- High Voltage
- Low Noise
- 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}		1200	V
Average forward current	$I_F(\text{AV})$	50Hz sine wave, Resistance load, $T_l=75^{\circ}\text{C}$	1	A
Average forward current	$I_F(\text{AV})$	50Hz sine wave, Resistance load, On glass-epoxy substrate, $T_a=25^{\circ}\text{C}$ ※	0.36	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle, Peak value, $T_j=25^{\circ}\text{C}$	20	A

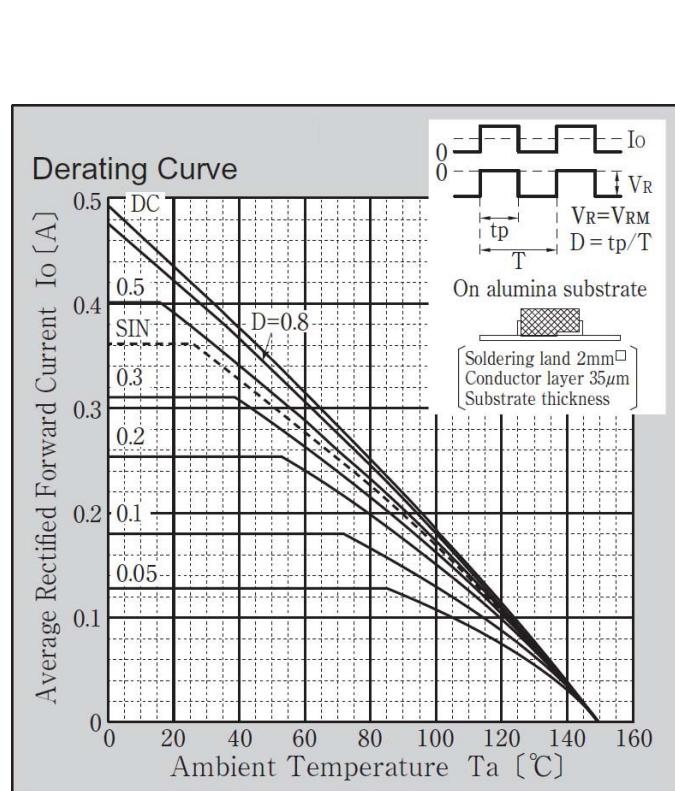
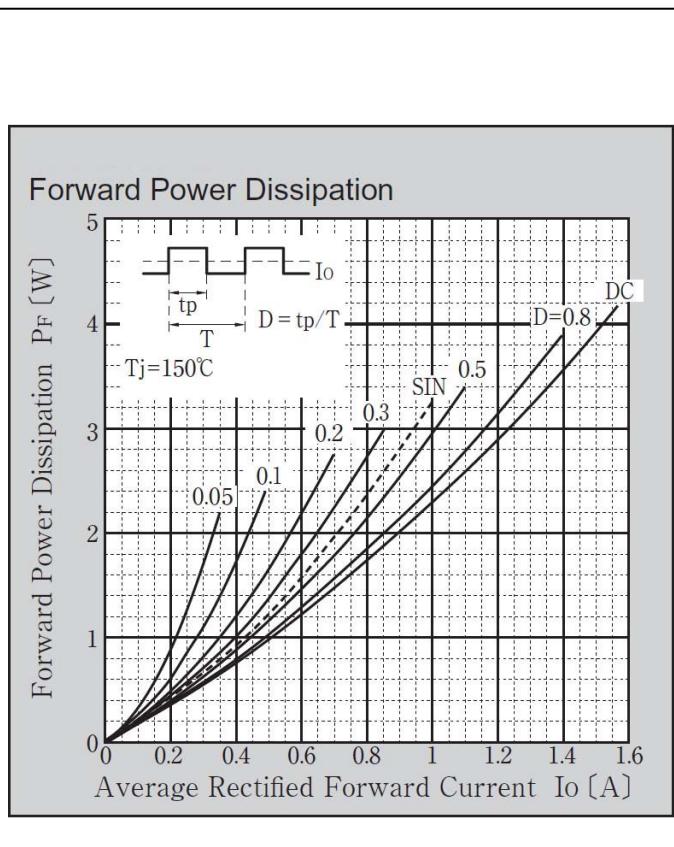
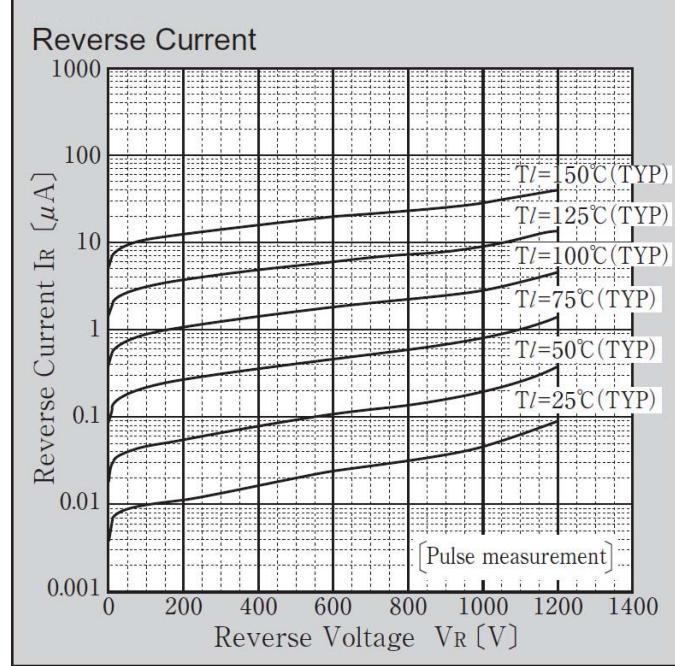
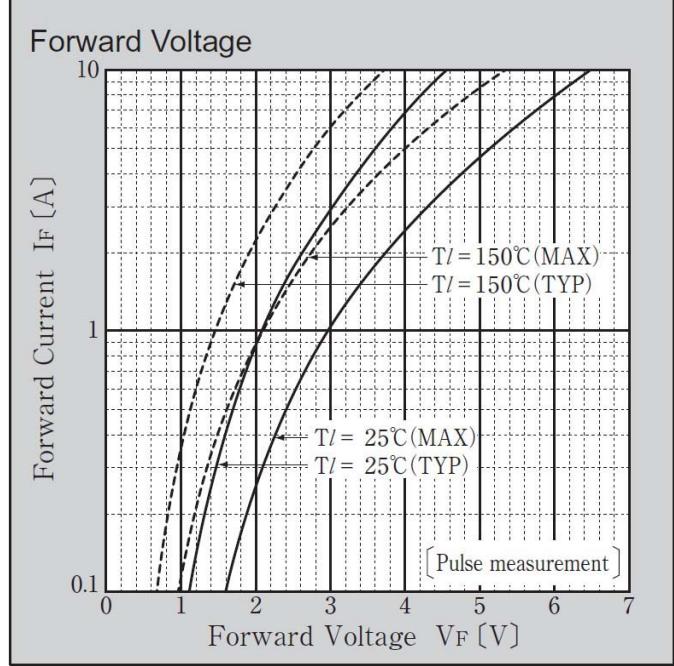
※ : See the original Specifications

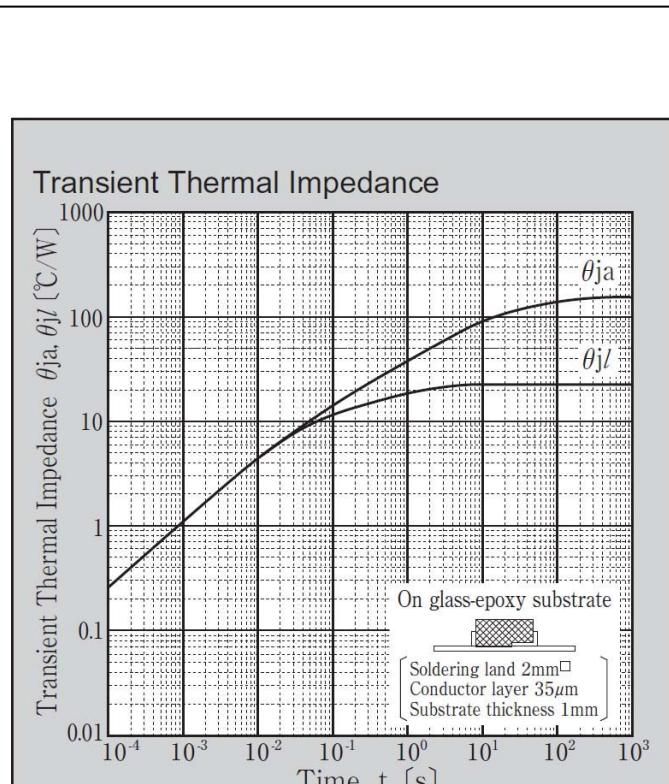
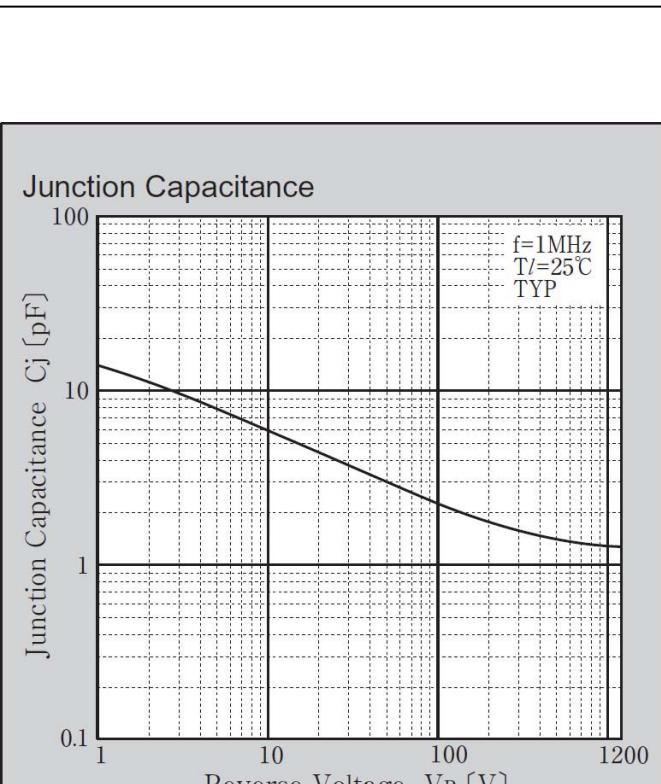
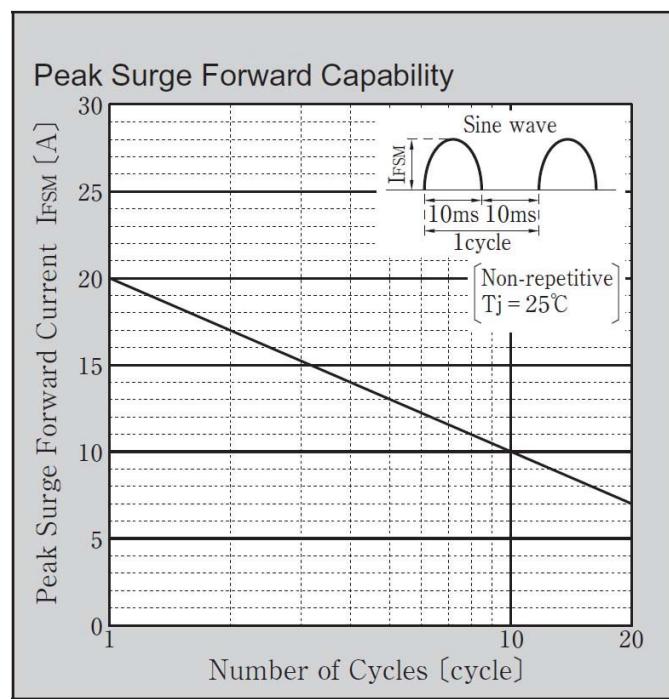
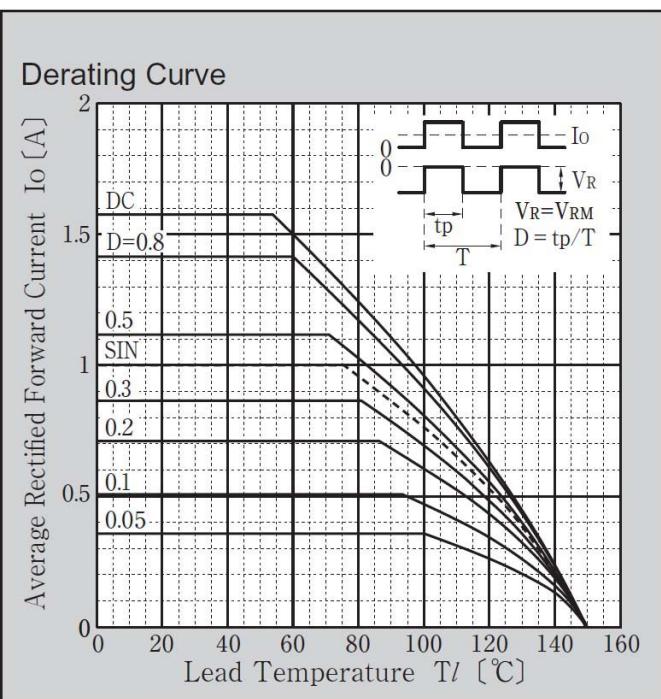
Electrical Characteristics (unless otherwise specified : Tl=25°C)

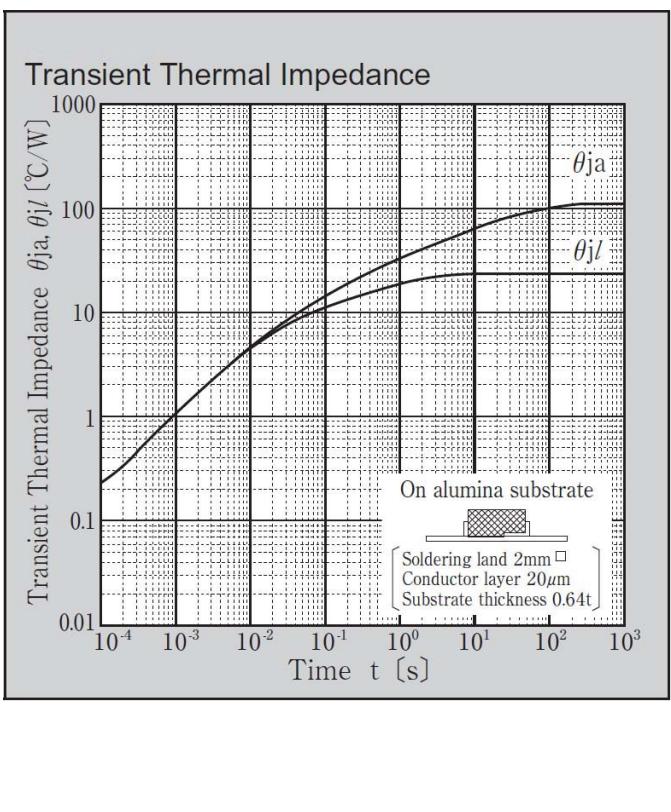
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=1A, Pulse measurement			3	V
Reverse current	I_R	VR=1200V, Pulse measurement			10	μA
Reverse recovery time	trr	IF=0.5A, IR=1.0A, 0.25IR			120	ns
Total capacitance	Ct	f=1MHz, VR=10V		5.8		pF
Thermal resistance	Rth(j-l)	Junction to lead			23	$^{\circ}C/W$
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate	※		157	$^{\circ}C/W$

※ :See the original Specifications

CHARACTERISTIC DIAGRAMS







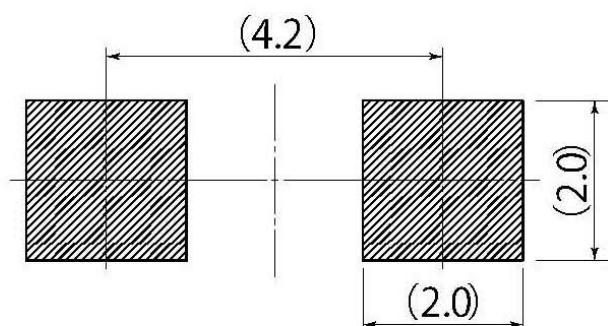
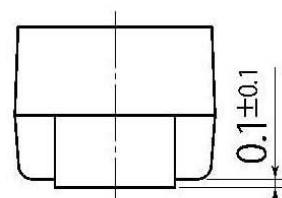
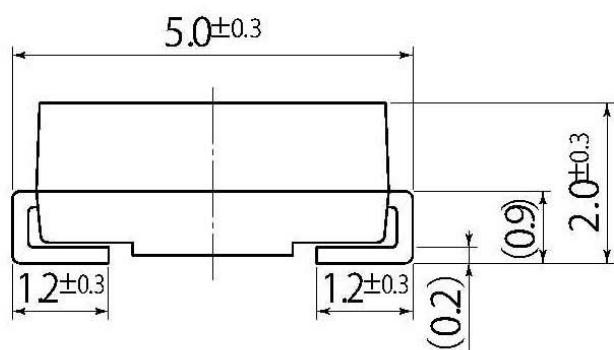
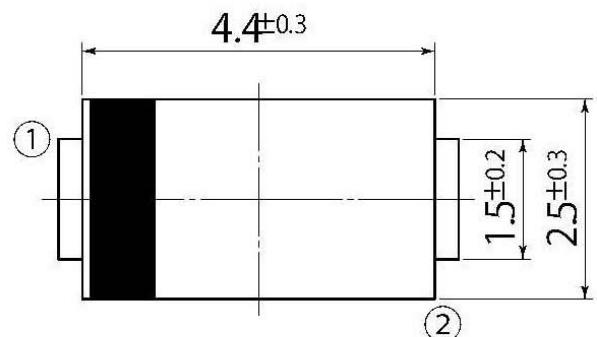
Outline Dimensions

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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