

D1FJ10

Schottky Barrier Diodes
100V, 1A

Feature

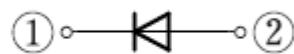
- Small SMD
- High Recovery Speed
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

OUTLINE

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



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : TI=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}		100	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, TI=129°C	1	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, On alumina substrate, Ta=52°C *	1	A
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=36°C *	0.8	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive, 1cycle, Peak value, T _j =25°C	50	A

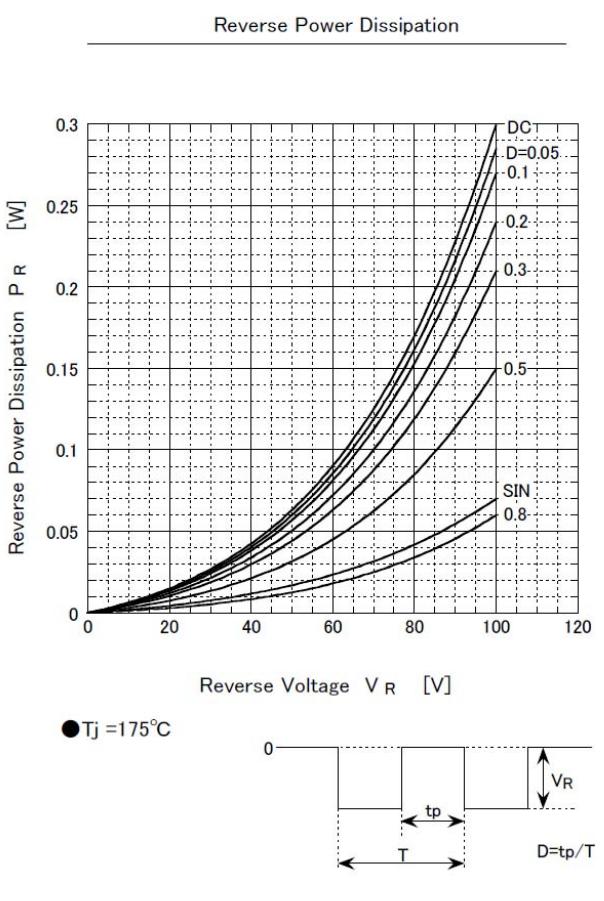
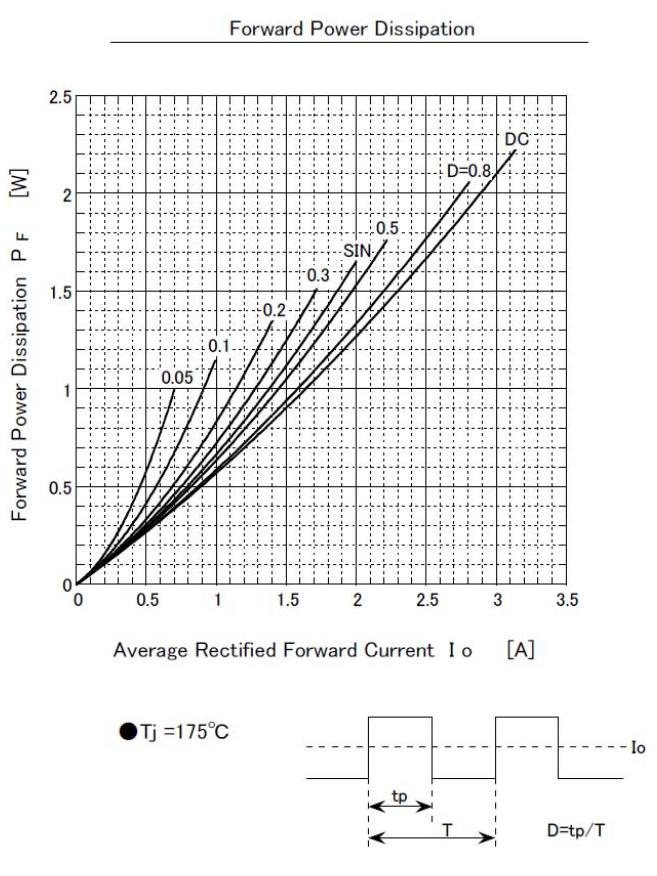
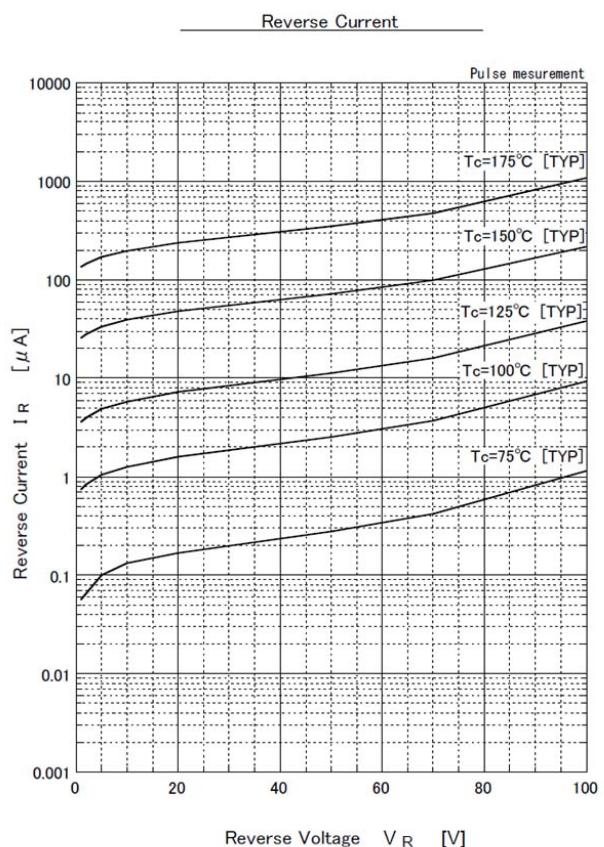
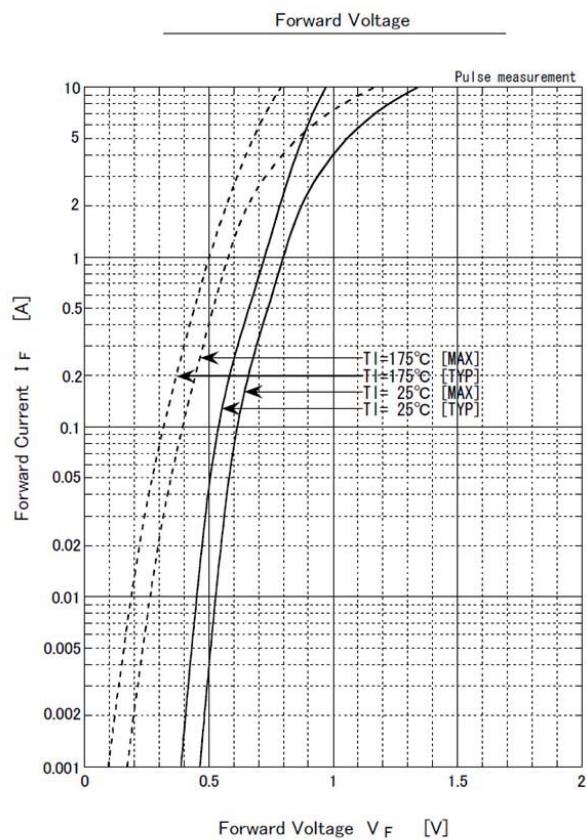
* : See the original Specifications

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

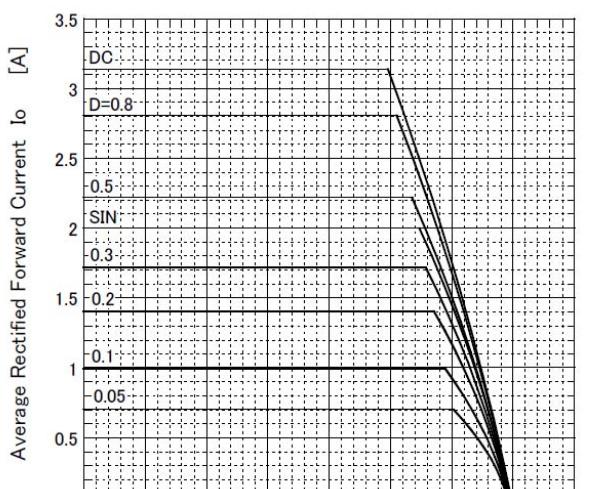
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=1A, Pulse measurement			0.72	V
Reverse current	I _R	VR=100V, Pulse measurement			0.2	mA
Total capacitance	C _t	f=1MHz, VR=10V		63		pF
Thermal resistance	R _{th(j-l)}	Junction to lead			23	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient, On alumina substrate *			108	°C/W
Thermal resistance	R _{th(j-a)}	Junction to ambient, On glass-epoxy substrate *			157	°C/W

* : See the original Specifications

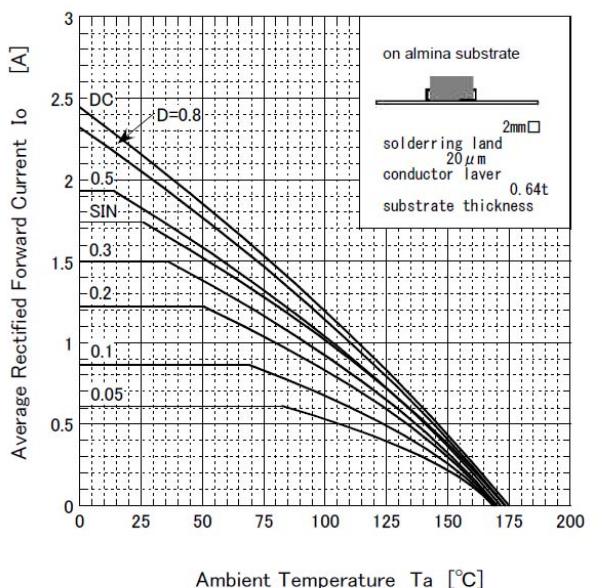
CHARACTERISTIC DIAGRAMS



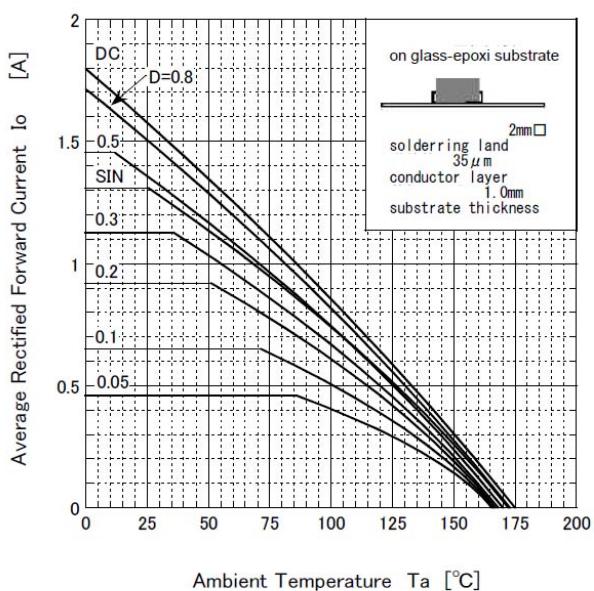
Derating Curve



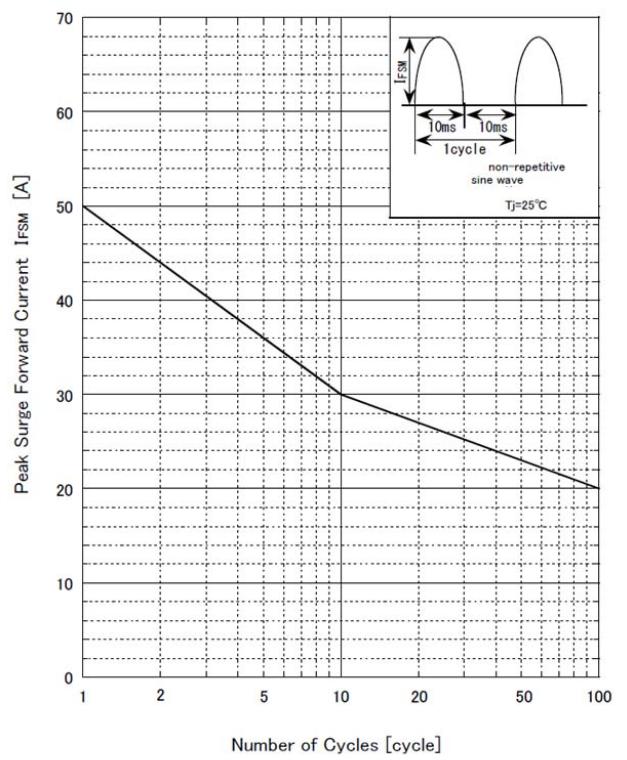
Derating Curve

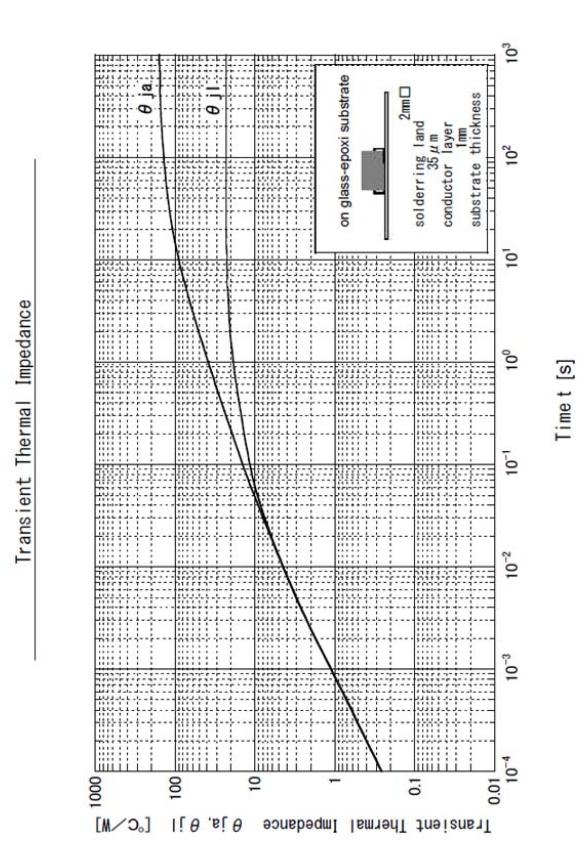
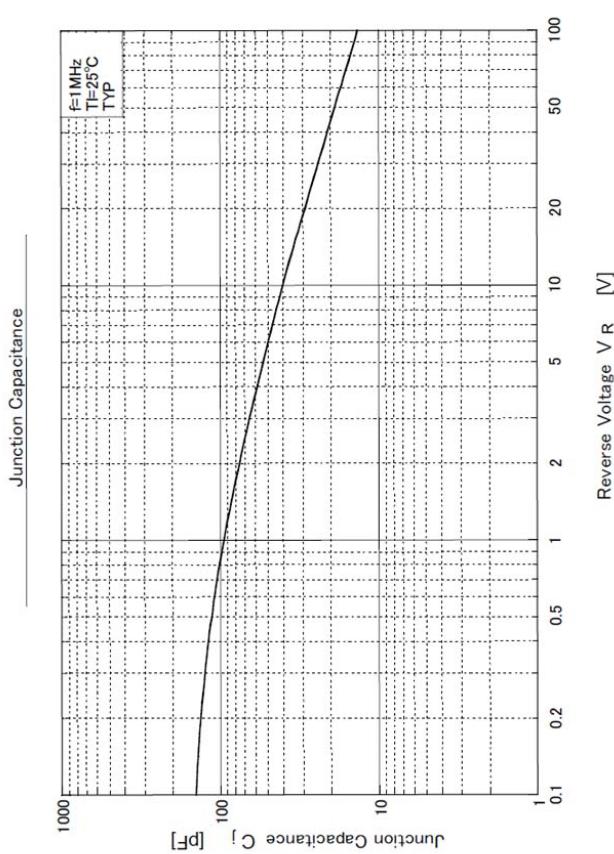
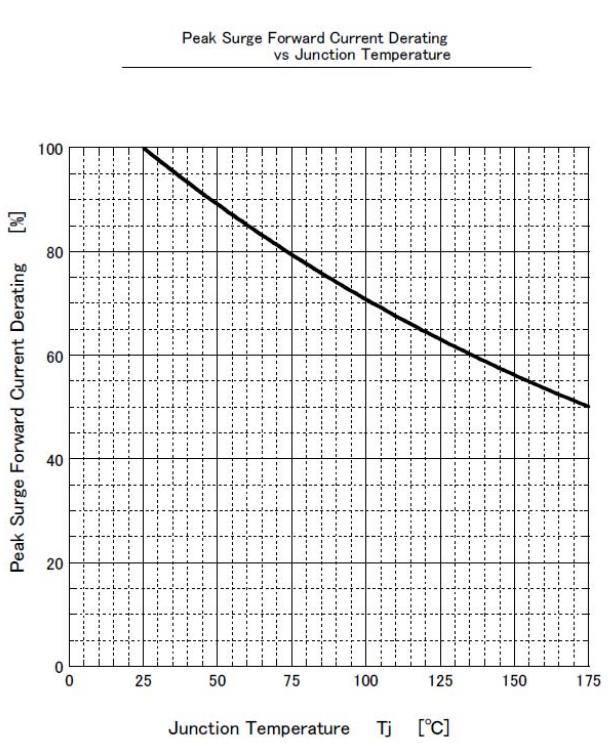
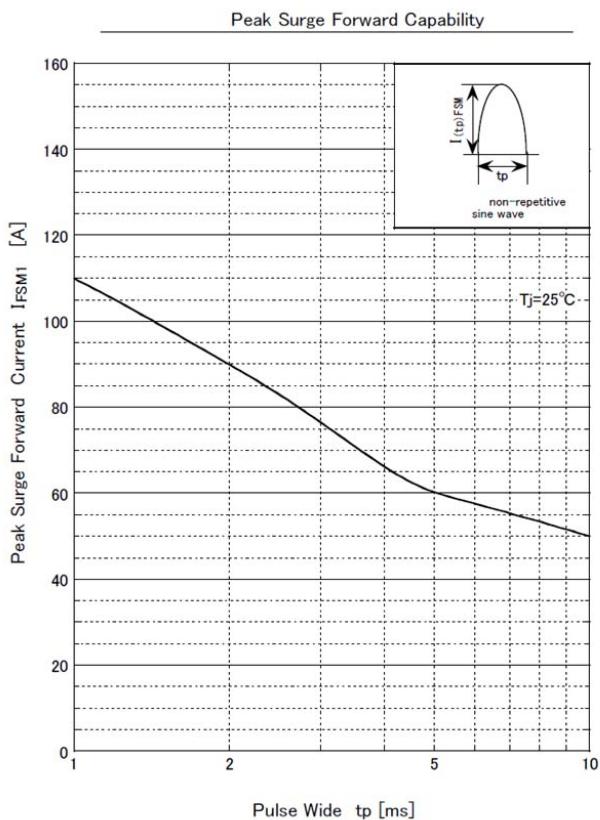


Derating Curve

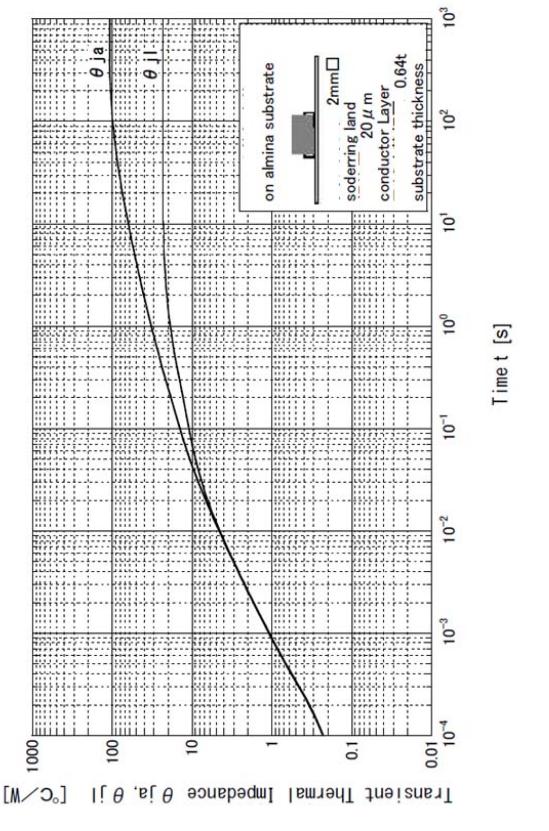


Peak Surge Forward Capability





Transient Thermal Impedance



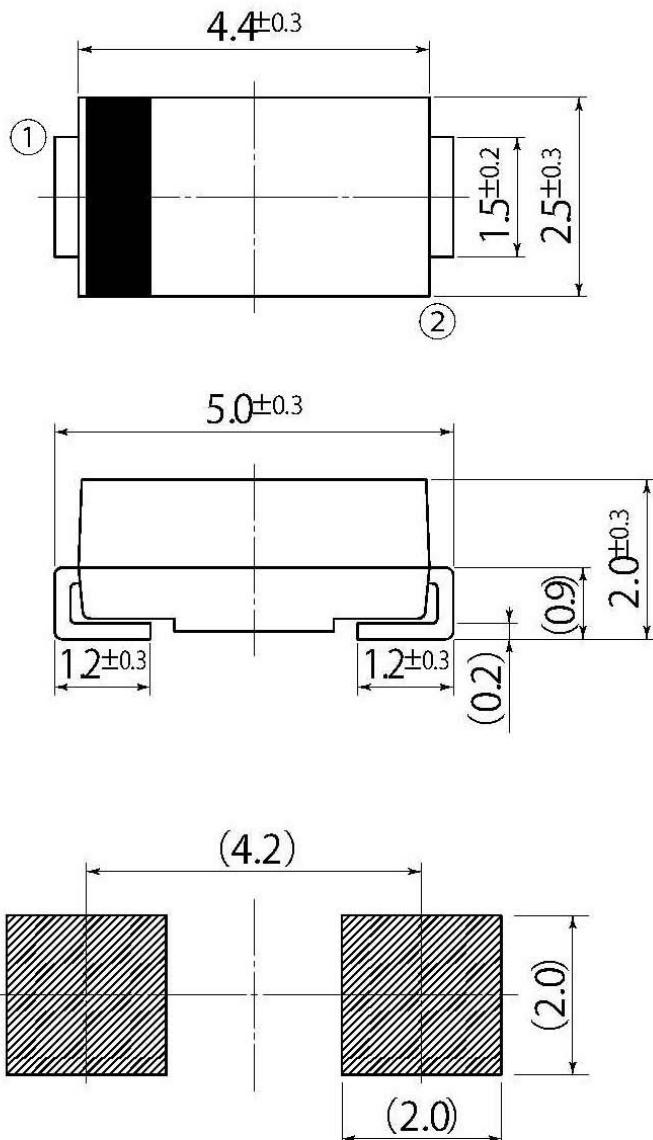
Outline Dimensions

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.