

D1FM3  
Schottky Barrier Diodes  
30V, 5A

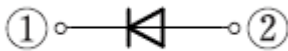
- Feature
- Small SMD
  - High Recovery Speed
  - Low  $V_F$
  - Based on AEC-Q101
  - Pb free terminal
  - RoHS:Yes

OUTLINE

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



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	VRRM		30	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Tc=83°C ※	5	A
Average forward current	IF(AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	3	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C	90	A

※ :See the original Specifications



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

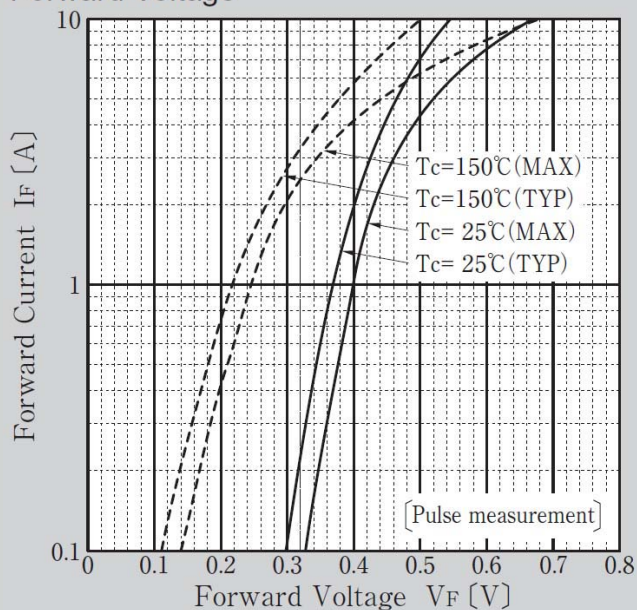
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=3.0A, Pulse measurement			0.46	V
Forward voltage	$V_F$	IF=1.0A, Pulse measurement			0.4	V
Reverse current	$I_R$	VR=30V, Pulse measurement			0.1	mA
Total capacitance	Ct	f=1MHz, VR=10V		130		pF
Thermal resistance	Rth(j-c)	Junction to case ※			16	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate ※			18	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate ※			65	°C/W

※ :See the original Specifications

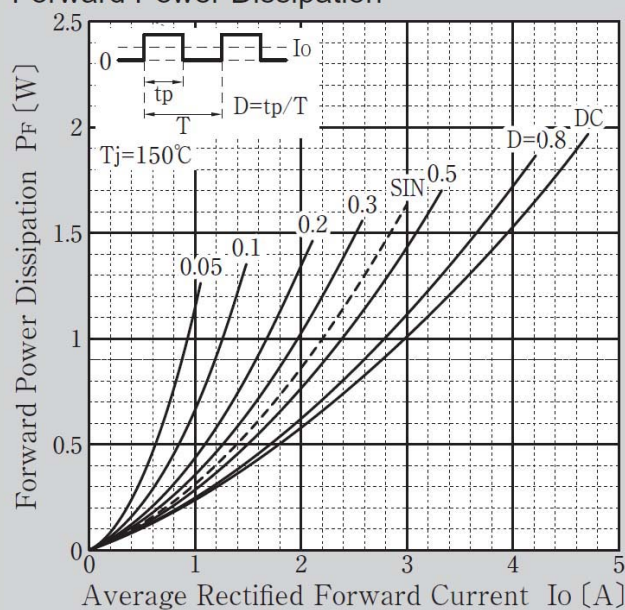


## CHARACTERISTIC DIAGRAMS

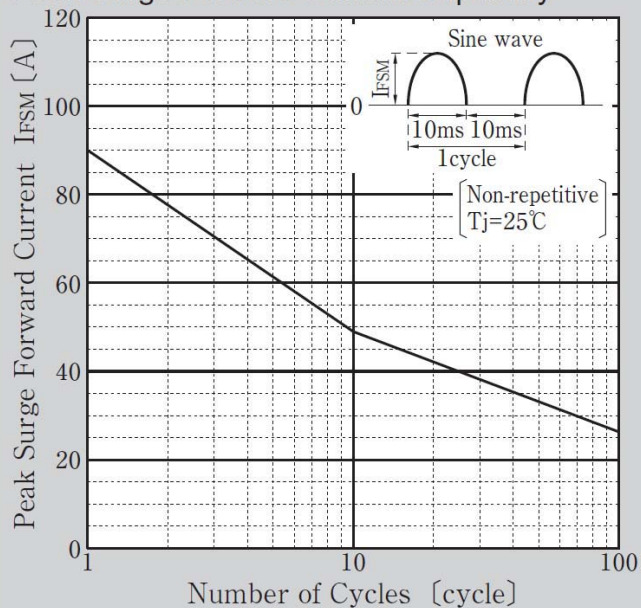
Forward Voltage



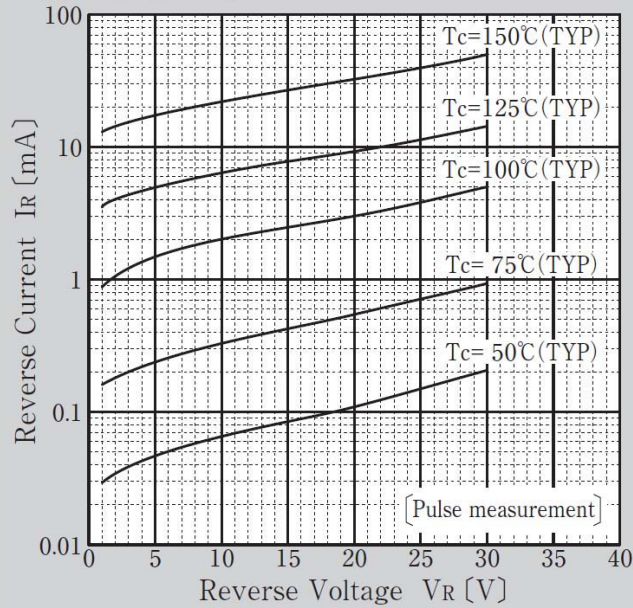
Forward Power Dissipation



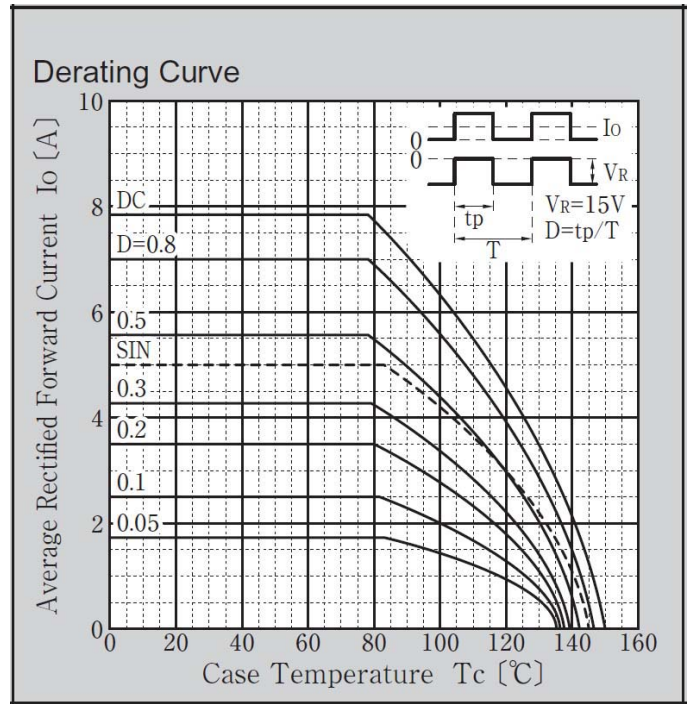
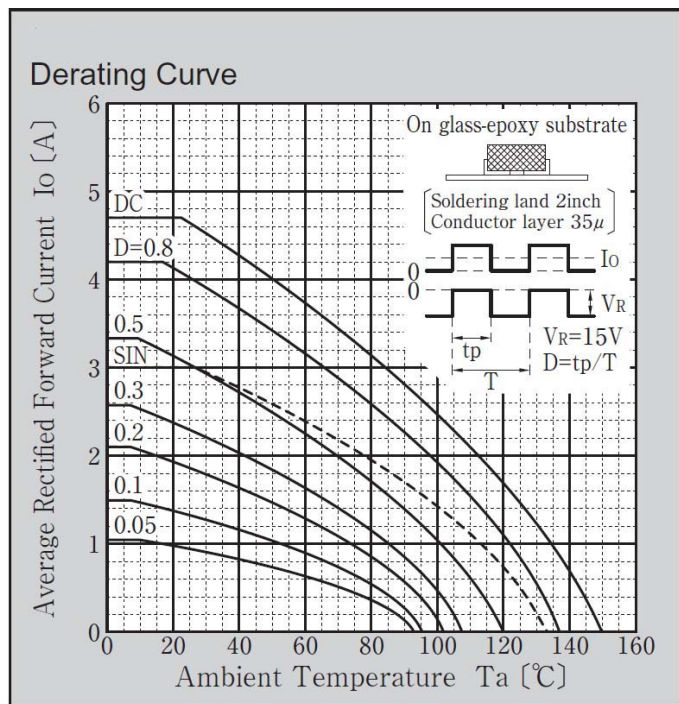
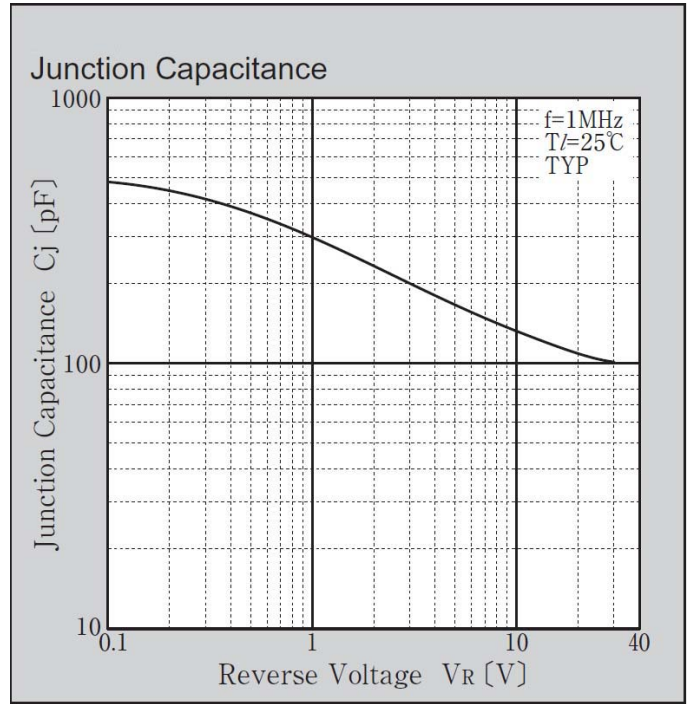
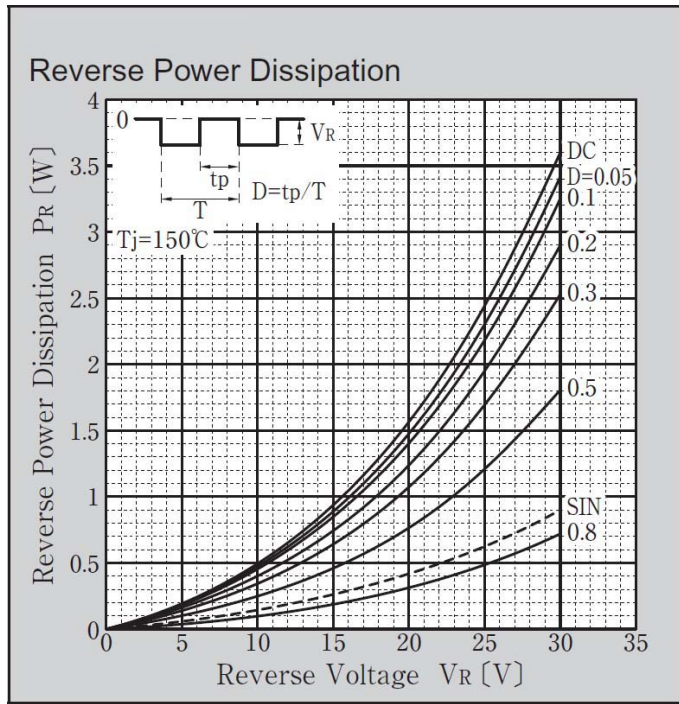
Peak Surge Forward Current Capability



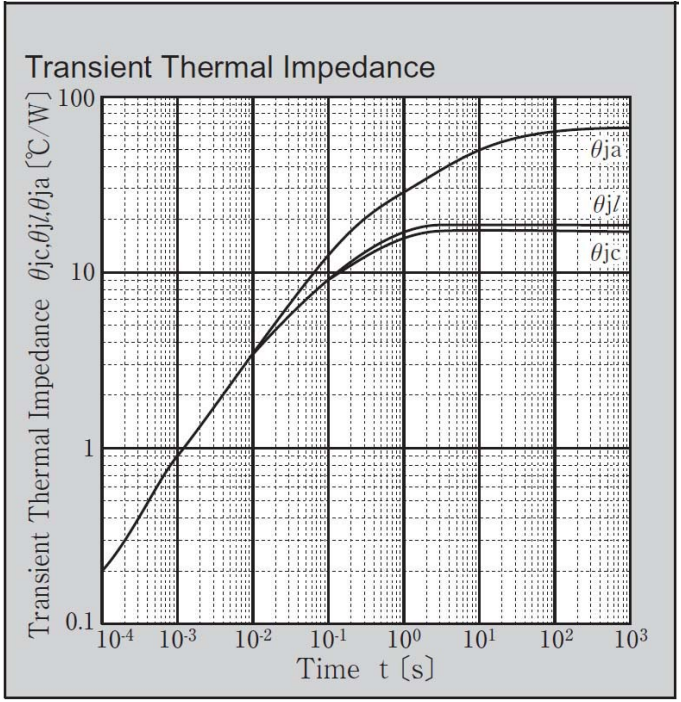
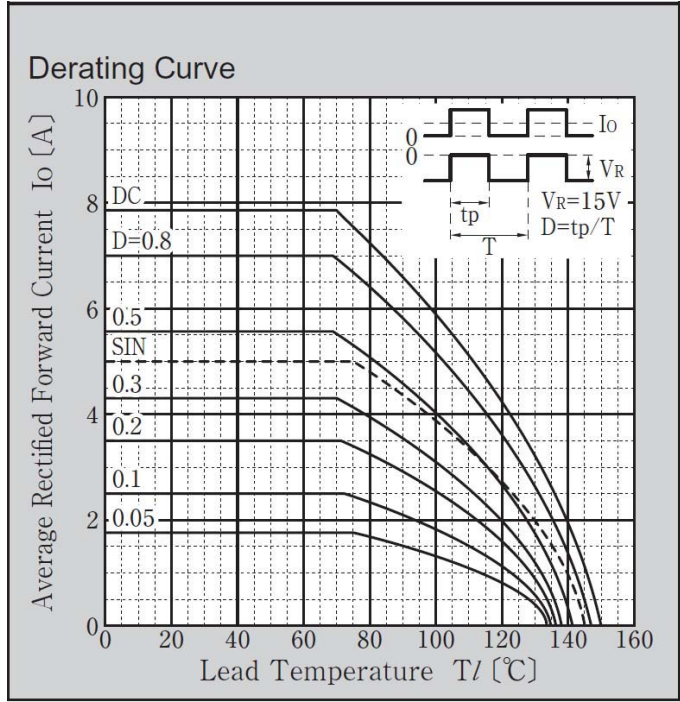
Reverse Current







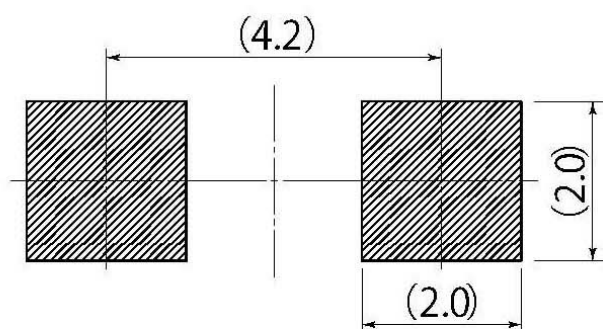
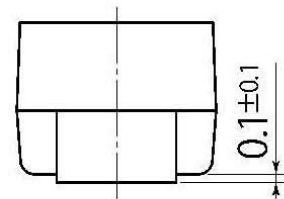
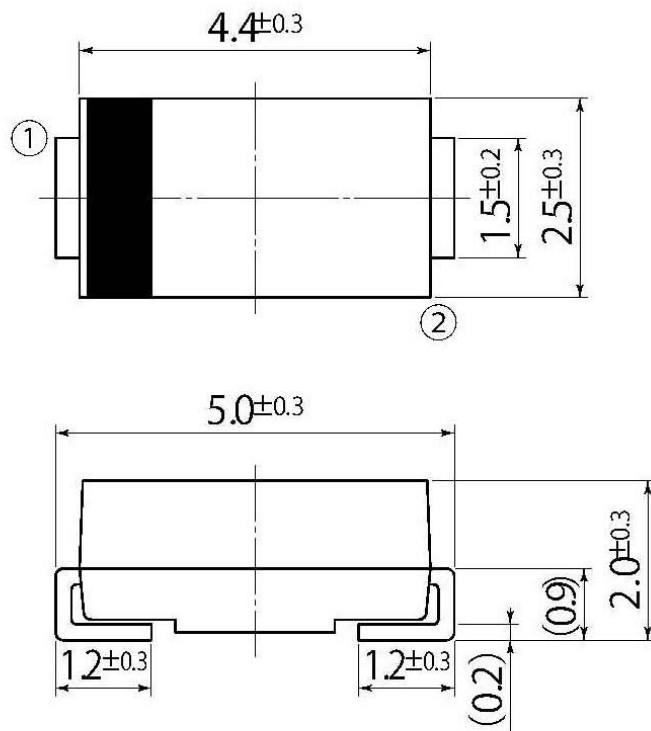






B3

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



Referential Soldering Pad

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



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