

# **D1FT15A**

# Schottky Barrier Diodes 150V, 3A

#### **Feature**

- Small SMD
- High Voltage
- Tj=175°C
- Ultra low I<sub>R</sub>
- Based on AEC-Q101
- Pb free terminal
- RoHS:Yes

## **OUTLINE**

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





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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 175	°C
Junction temperature	Tj		-55 to 175	°C
Repetitive peak reverse voltage	V <sub>RRM</sub>		150	V
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, Tl=116°C	3	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C %	1.8	Α
Average forward current	I <sub>F</sub> (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C **		Α
Surge forward current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive, 1cycle, Peak value, Tj=25°C 60		Α

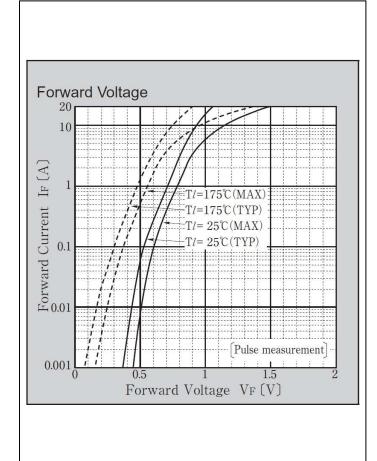
**※** ∶See the original Specifications

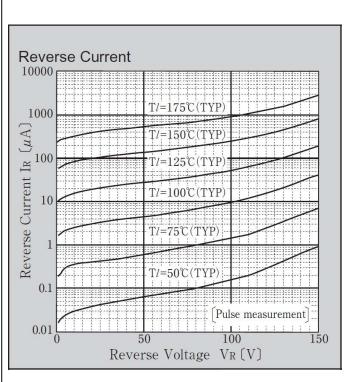
# **Electrical Characteristics** (unless otherwise specified : Tl=25°C)

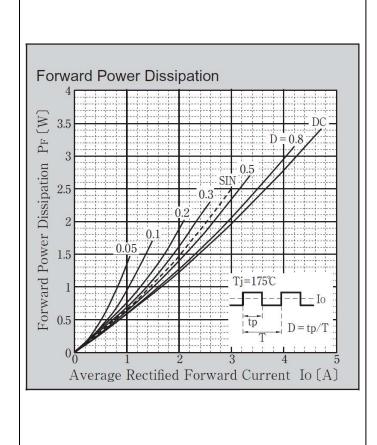
Item	Symbol	Conditions	Ratings			l lmia
			MIN	TYP	MAX	Unit
Forward voltage	$V_{F}$	IF=3A, Pulse measurement			0.88	V
Forward voltage	$V_{F}$	IF=1A, Pulse measurement			0.78	V
Reverse current	I <sub>R</sub>	VR=150V, Pulse measurement			0.008	mA
Total capacitance	Ct	f=1MHz, VR=10V		52		pF
Thermal resistance	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

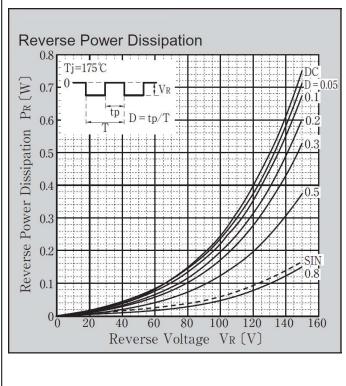
 $<sup>\</sup>divideontimes$  : See the original Specifications

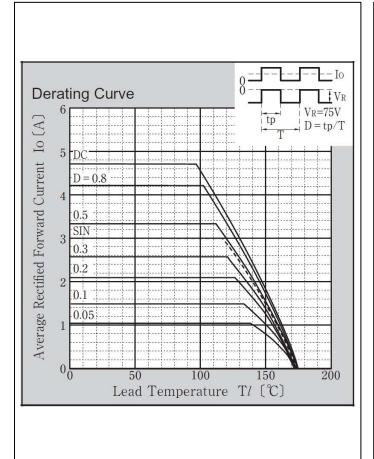
# CHARACTERISTIC DIAGRAMS

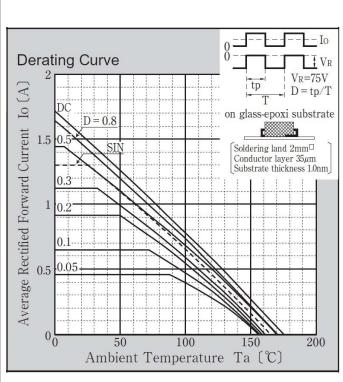


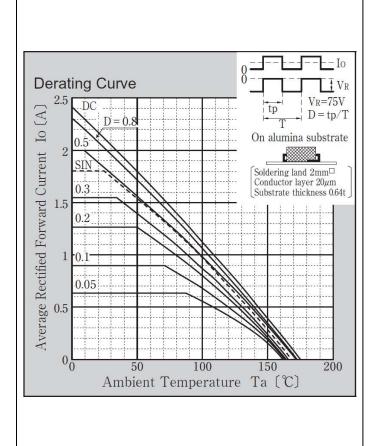


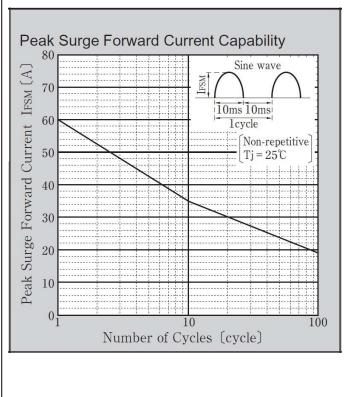


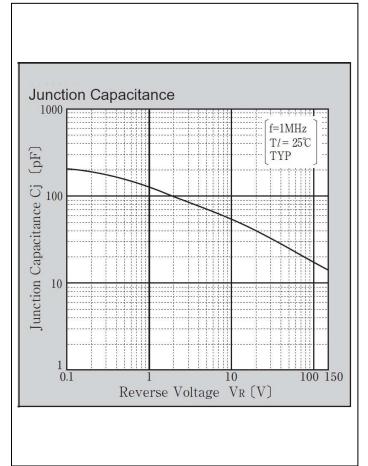


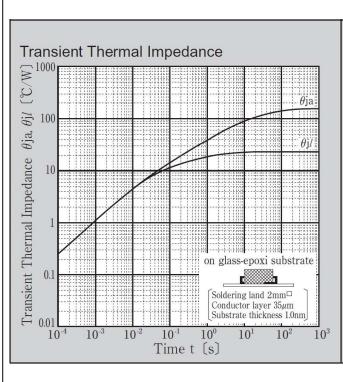


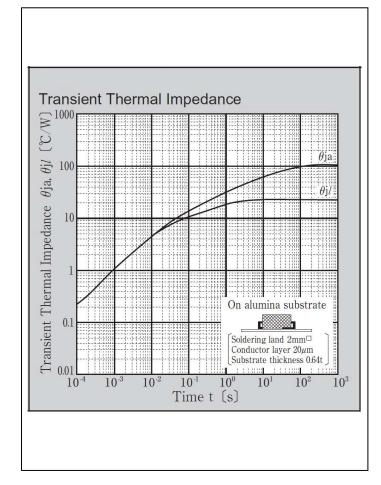










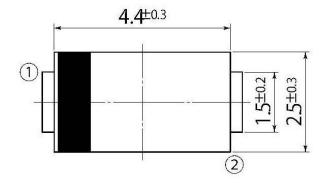


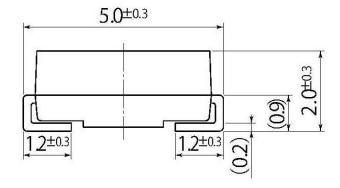
# unit:mm

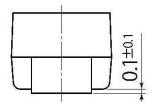
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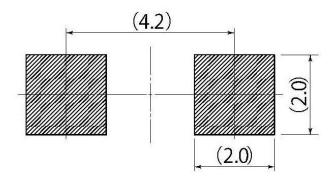
**B**3

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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