DA3DF30A

Silicon epitaxial planar type

For high frequency rectification

■ Features

- Short reverse recovery time t_{rr}
- Soft recovery

Packaging

Tray: 50 pcs

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Repetitive peak reverse voltage	V _{RRM}	350	V	
Non-repetitive peak reverse surge voltage	V _{RSM}	350	V	
Forward current	I_F	20	A	
Non-repetitive peak forward surge current *1	I _{FSM}	100	A	
Repetitive peak forward current *2	I _{FRM}	150	A	
Junction temperature	T _j	150	°C	
Storage temperature	T _{stg}	-40 to +150	°C	

Note) *1: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

■ Package

• Code

TO-220D-A1

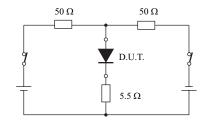
- Pin Name
 - 1: Anode
 - 2: Cathode
 - 3: Anode
- Marking Symbol: DAF30A

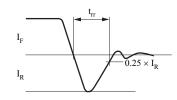
■ Electrical Characteristics $T_a = 25$ °C±3°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 20 A$		1.2	1.4	V
Repetitive peak reverse current	I_{RRM}	$V_{RRM} = 350 \text{ V}$			10	μΑ
Reverse recovery time *	t _{rr}	$I_F = 0.5 \text{ A}, V_R = 1.0 \text{ V}, I_{rr} = 0.25 \text{ A}$		12	25	ns
Thermal resistance (j-c)	R _{th(j-c)}				4.0	°C/W
Thermal resistance (j-a)	R _{th(j-a)}				63	°C/W

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

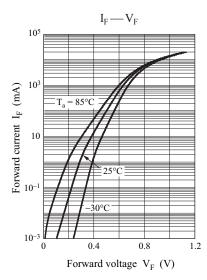
- 2. Absolute frequency of input and output is 10 MHz
- 3. *: t_{rr} measurement circuit

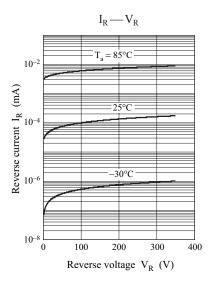


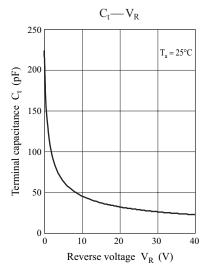


^{*2:} Pulse width < 10 ms. Peak value of the sine wave. (If repeative, RMS current < 20 A)

DA3DF30A Panasonic



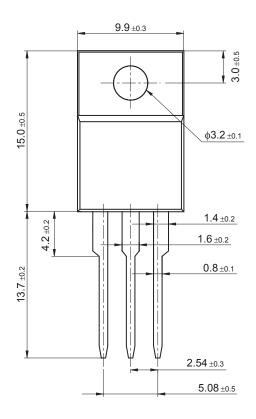


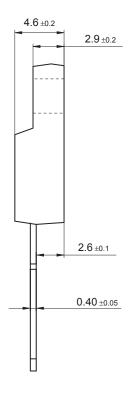


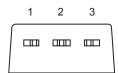
2 Ver. AED

TO-220D-A1

Unit: mm







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