# MA3D749 (MA7D49), MA3D749A (MA7D49A)

### Silicon epitaxial planar type (cathode common)

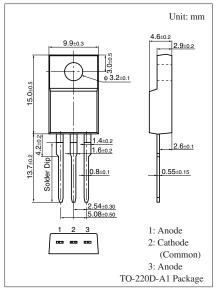
For switching mode power supply

#### Features

- Low forward voltage V<sub>F</sub>
- High dielectric breakdown voltage: > 5 kV
- Easy-to-mount, due to its V cut lead end

Absolute Maximum Ratings  $T_a = 25^{\circ}C$ 

Parameter		Symbol	Rating	Unit	
Repetitive peak	MA3D749	V <sub>RRM</sub>	40	V	
reverse voltage	MA3D749A		45		
Forward current (Average)		I <sub>F(AV)</sub>	5	А	
Non-repetitive peak forward surge current *		I <sub>FSM</sub>	90	А	
Junction temperature		Tj	-40 to +125	°C	
Storage temperature		T <sub>stg</sub>	-40 to +125	°C	



Note) \*: Half sine wave; 10 ms/cycle

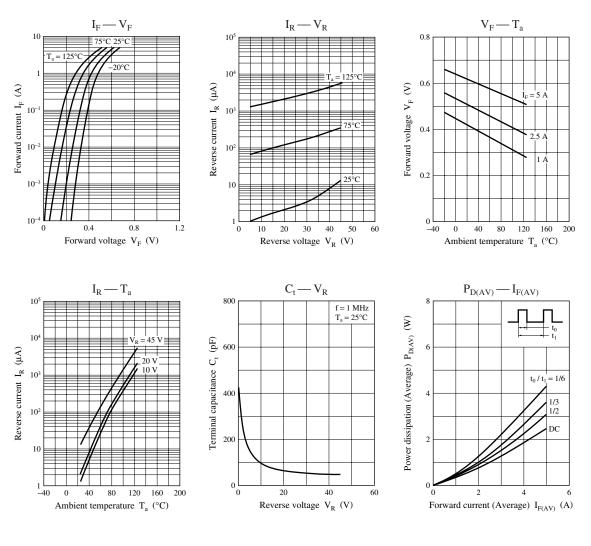
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 2^{\circ}C$

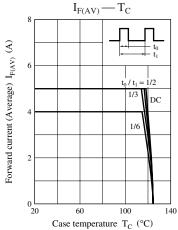
Parameter		Symbol	Conditions	Min	Тур	Мах	Unit
Forward voltage		V <sub>F</sub>	$I_F = 2.5 \text{ A}, T_C = 25^{\circ}\text{C}$			0.55	V
Reverse current	MA3D749	I <sub>R</sub>	$V_R = 40 V, T_C = 25^{\circ}C$			1.0	mA
	MA3D749A		$V_R = 45 \text{ V}, \text{ T}_C = 25^{\circ}\text{C}$			1.0	1
Thermal resistance (j-c)		R <sub>th(j-c)</sub>				3.0	°C/W

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

2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

3. Absolute frequency of input and output is 200 MHz.





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