



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**MA3D749 (MA7D49), MA3D749A (MA7D49A)**

Silicon epitaxial planar type (cathode common)

For switching mode power supply

## ■ Features

- Low forward voltage  $V_F$
- High dielectric breakdown voltage: > 5 kV
- Easy-to-mount, due to its V cut lead end

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

Parameter	Symbol	Rating	Unit	
Repetitive peak reverse voltage	MA3D749 MA3D749A	$V_{RRM}$	40	V
Forward current (Average)			5	
Non-repetitive peak forward surge current *	$I_{FSM}$	90	A	
Junction temperature	$T_j$	-40 to +125	$^\circ\text{C}$	
Storage temperature	$T_{stg}$	-40 to +125	$^\circ\text{C}$	

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

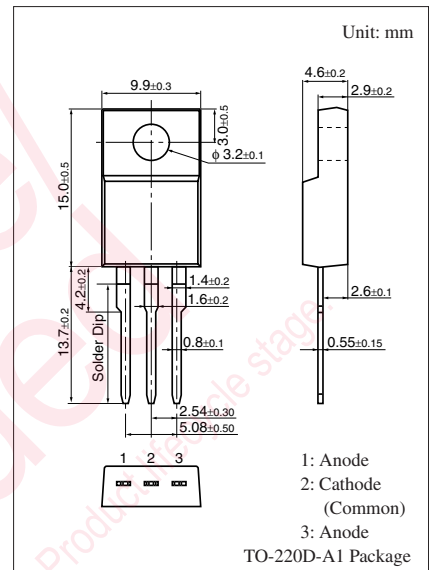
■ Electrical Characteristics  $T_a = 25^\circ\text{C} \pm 2^\circ\text{C}$ 

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 2.5 \text{ A}, T_C = 25^\circ\text{C}$			0.55	V
Reverse current	$I_R$	$V_R = 40 \text{ V}, T_C = 25^\circ\text{C}$			1.0	mA
		$V_R = 45 \text{ V}, T_C = 25^\circ\text{C}$			1.0	
Thermal resistance (j-c)	$R_{th(j-c)}$				3.0	$^\circ\text{C}/\text{W}$

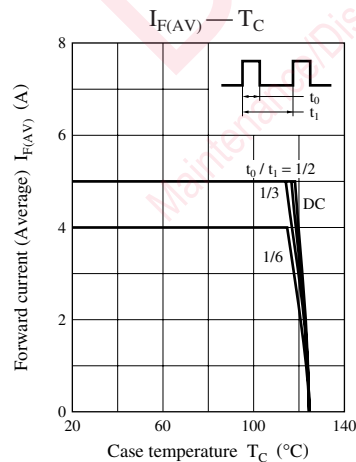
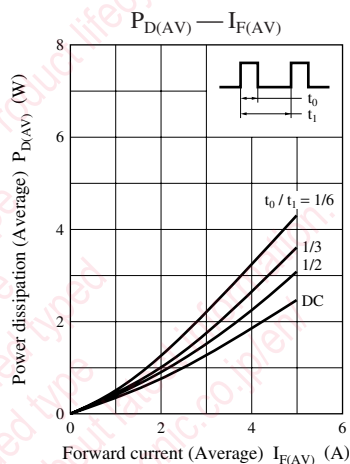
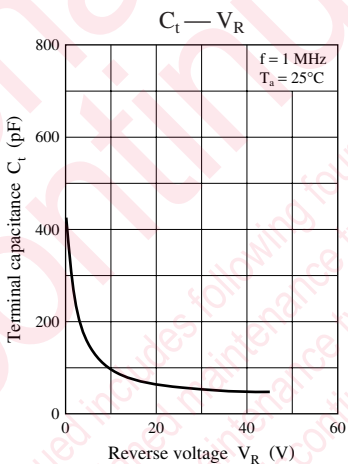
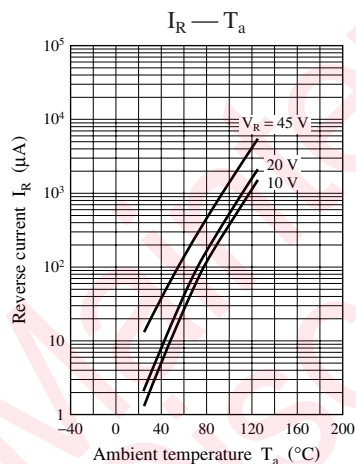
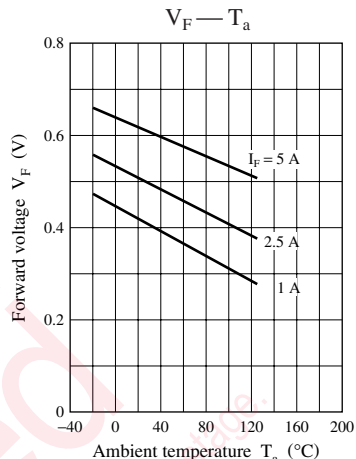
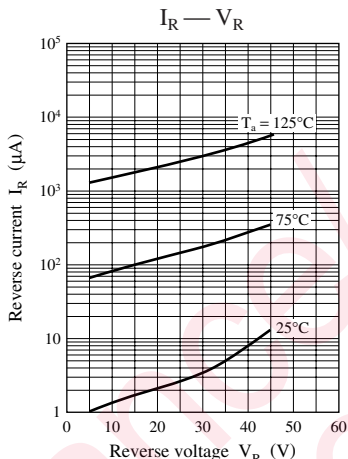
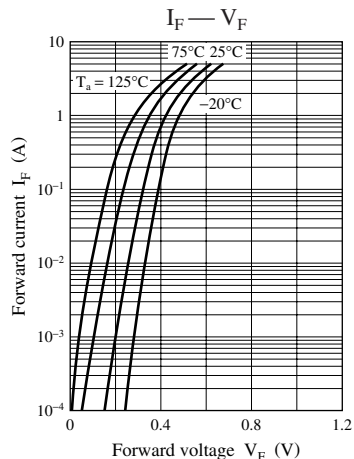
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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.



Note) The part numbers in the parenthesis show conventional part number.





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