

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	V_{RRM}	40	V
MA3D749A	45		
Forward current (Average)	$I_{F(AV)}$	5	A
Non-repetitive peak forward surge current *	I_{FSM}	90	A
Junction temperature	T_j	-40 to +125	°C
Storage temperature	T_{stg}	-40 to +125	°C

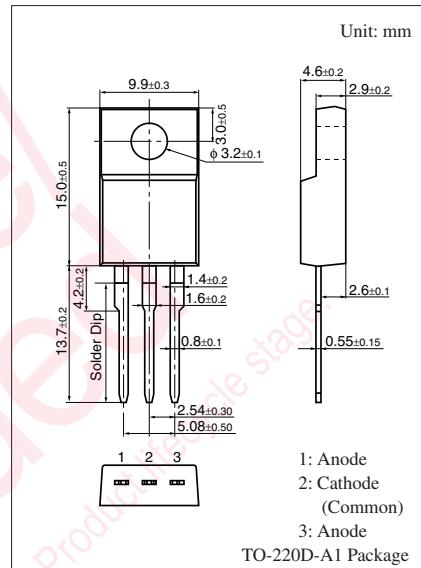
Note) *: Half sine wave; 10 ms/cycle

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

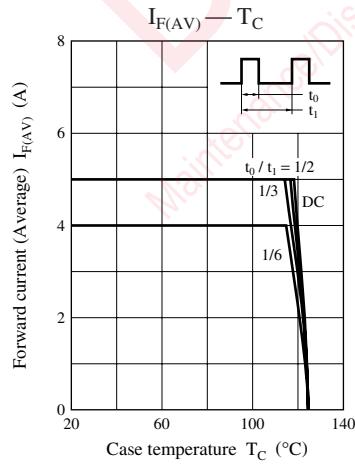
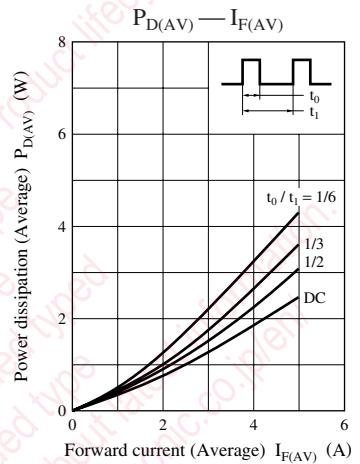
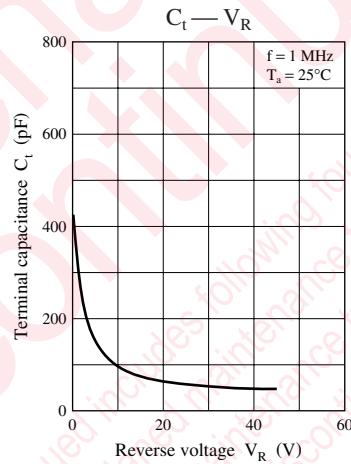
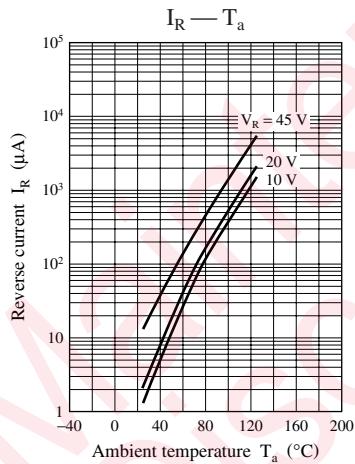
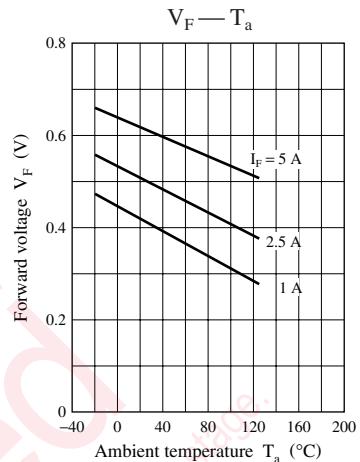
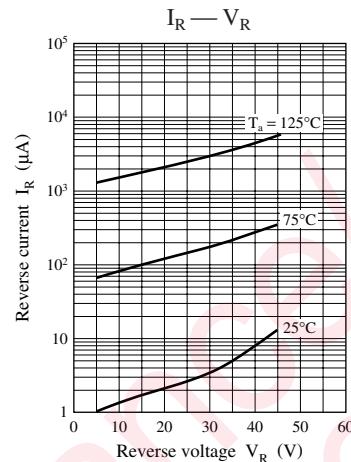
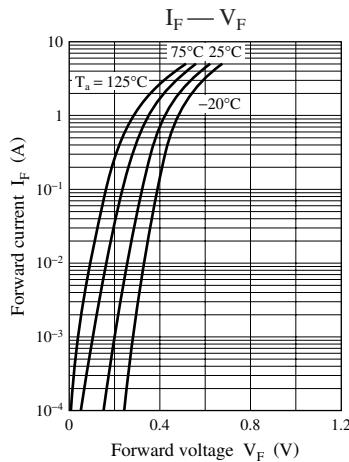
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 2.5 \text{ A}, T_C = 25^\circ\text{C}$			0.55	V
Reverse current	I_R	$V_R = 40 \text{ V}, T_C = 25^\circ\text{C}$			1.0	mA
MA3D749A		$V_R = 45 \text{ V}, T_C = 25^\circ\text{C}$			1.0	
Thermal resistance (j-c)	$R_{th(j-c)}$				3.0	°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.



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



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