# MA3D750 (MA7D50), MA3D750A (MA7D50A)

## Silicon epitaxial planar type (cathode common)

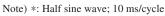
For switching mode power supply

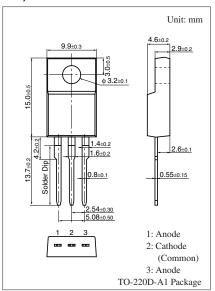
#### ■ Features

- 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 $T_C = 25$ °C

Parameter		Symbol	Rating	Unit
Repetitive peak	MA3D750	V <sub>RRM</sub>	40	V
reverse-voltage	MA3D750A		45	
Forward current (Average)		I <sub>F(AV)</sub>	10	A
Non-repetitive peak forward surge current *		$I_{FSM}$	120	A
Junction temperature		T <sub>j</sub>	-40 to +125	°C
Storage temperature		T <sub>stg</sub>	-40 to +125	°C



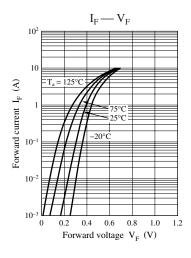


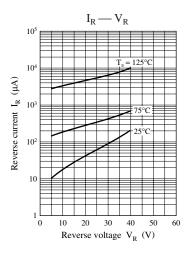
### ■ Electrical Characteristics $T_C = 25^{\circ}C \pm 3^{\circ}C$

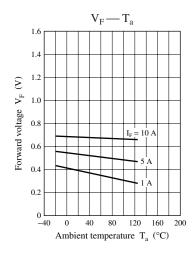
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage		$V_{F}$	$I_F = 5 \text{ A}, T_C = 25^{\circ}\text{C}$			0.55	V
Reverse current	MA3D750	$I_R$	$V_R = 40 \text{ V}, T_C = 25^{\circ}\text{C}$			3	mA
	MA3D750A		$V_R = 45 \text{ V}, T_C = 25^{\circ}\text{C}$			3	
Thermal resistance (j-c)		R <sub>th(j-c)</sub>				3.0	°C/W

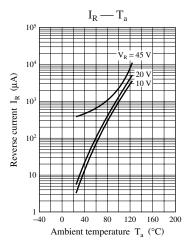
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
  - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
  - 3. Absolute frequency of input and output is 150 MHz.

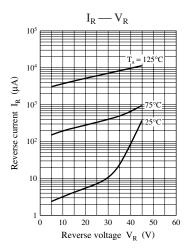
Note) The part numbers in the parenthesis show conventional part number.

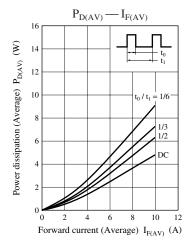


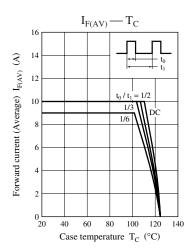












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