MA3D750, MA3D750A (MA7D50, MA7D50A)

Silicon epitaxial planar type (cathode common)

For switching power supply

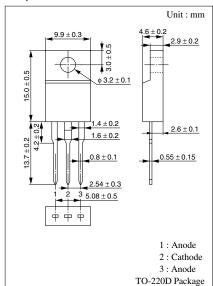
■ Features

- Low forward rise voltage V_F
- \bullet TO-220D (Full-pack package) with high dielectric breakdown voltage > 5.0 kV
- Easy-to-mount, caused by its V cut lead end

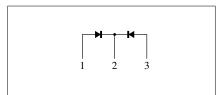
■ Absolute Maximum Ratings $T_a = 25$ °C

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

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



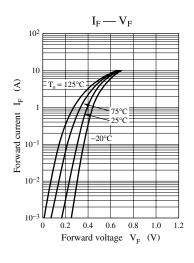
Internal Connection

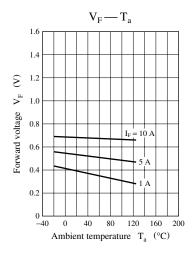


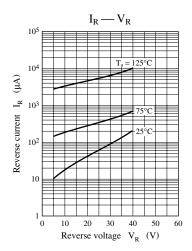
■ Electrical Characteristics $T_a = 25$ °C

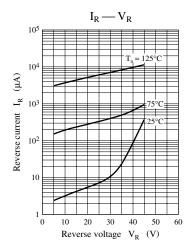
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	MA3D750	I_R	$V_R = 40 \text{ V}, T_C = 25^{\circ}\text{C}$			3	mA
	MA3D750A		$V_R = 45 \text{ V}, T_C = 25^{\circ}\text{C}$			3	
Forward voltage (DC)		V_{F}	$I_F = 5 \text{ A}, T_C = 25^{\circ}\text{C}$			0.55	V
Thermal resistance		R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

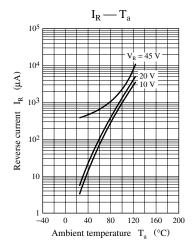
Note) Rated input/output frequency: 150 MHz

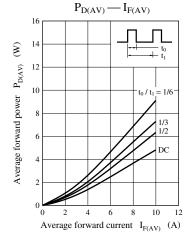


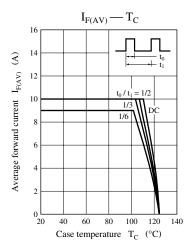












Panasonic 631

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