# MA3D760 (MA7D60)

### Silicon epitaxial planar type (cathode common)

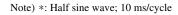
For switching mode power supply

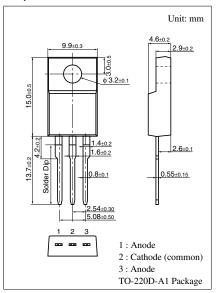
#### ■ Features

- Low forward voltage V<sub>F</sub>
- High dielectric breakdown voltage: > 5 kV
- Easy-to-mount, due to its V cut lead end
- TO-220D-A1 package

### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Repetitive peak reverse-voltage	$V_{RRM}$	90	V
Average forward current	$I_{F(AV)}$	5	A
Non-repetitive peak forward- surge-current *	$I_{FSM}$	80	A
Junction temperature	T <sub>j</sub>	-40 to +125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C



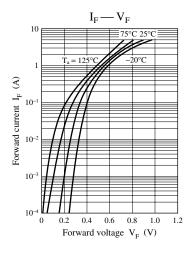


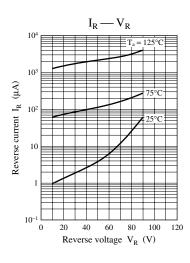
### ■ Electrical Characteristics $T_a = 25$ °C

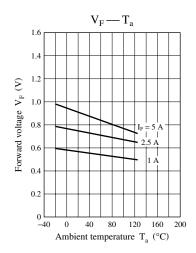
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 90 \text{ V}, T_C = 25^{\circ}\text{C}$			1	mA
Forward voltage (DC)	V <sub>F</sub>	$I_F = 2.5 \text{ A}, T_C = 25^{\circ}\text{C}$			0.80	V
High voltage rectification *	R <sub>th(j-c)</sub>	Smoothed current (between junction and case)			3	°C/W

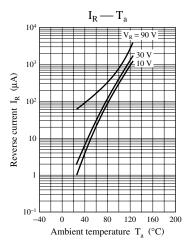
Note) 1. Rated input/output frequency: 200 MHz

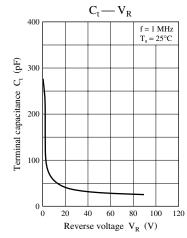
2. \*:  $T_C = 25^{\circ}C$ 

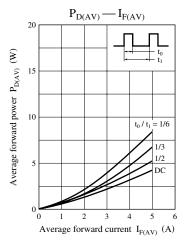


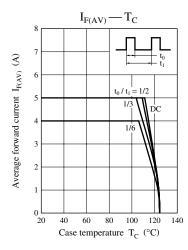












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