

# MA3D761

## Silicon epitaxial planar type (cathode common)

For switching power supply

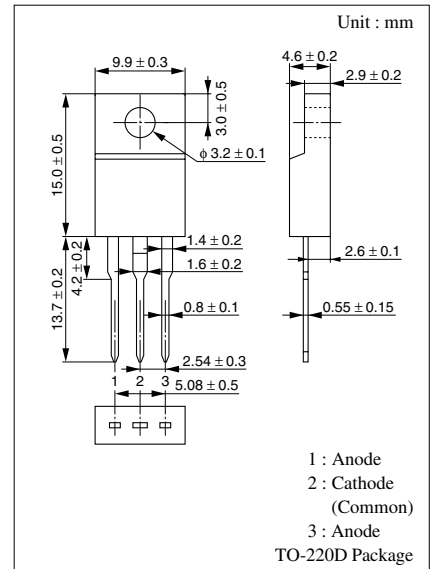
### ■ Features

- Low forward rise voltage  $V_F$
- 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 $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$	90	V
Average forward current	$I_{F(AV)}$	10	A
Non-repetitive peak forward surge current*	$I_{FSM}$	100	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 $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 90\text{ V}$ , $T_C = 25^\circ\text{C}$			3	mA
Forward voltage (DC)	$V_F$	$I_F = 5\text{ A}$ , $T_C = 25^\circ\text{C}$			0.85	V
Thermal resistance*	$R_{th(j-c)}$	Direct current (between junction and case)			3	$^\circ\text{C/W}$

Note) 1. Rated input/output frequency: 150 MHz

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

