

# MA2D749

## Silicon epitaxial planar type

For switching power supply

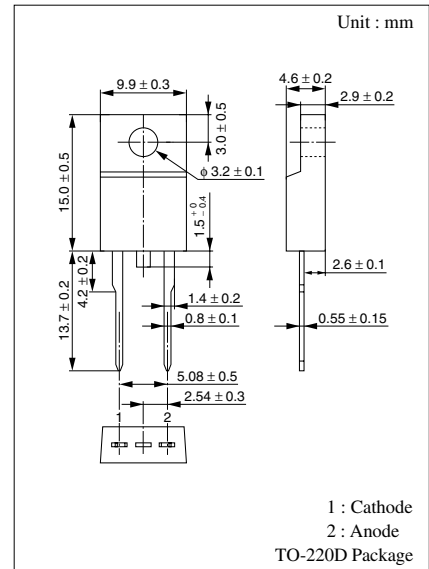
### ■ Features

- TO-220D Package
- Allowing to rectify under ( $I_{F(AV)} = 5$  A) condition
- Single type

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$	40	V
Average forward current	$I_{F(AV)}$	5	A
Non-repetitive peak forward surge current*	$I_{FSM}$	60	A
Junction temperature	$T_j$	-40 to +125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +125	$^\circ\text{C}$

Note) \* : The peak-to-peak value in one cycle of 50 Hz sine-wave (non-repetitive)



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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 40$ V			3	mA
Forward voltage (DC)	$V_F$	$I_F = 5$ A			0.55	V
Thermal resistance	$R_{th(j-c)}$	Direct current (between junction and case)			3.5	$^\circ\text{C}/\text{W}$

Note) Rated input/output frequency: 150 kHz

