# MA3G751, MA3G751A (MA751, MA751A)

## Silicon epitaxial planar type (cathode common)

For switching mode power supply

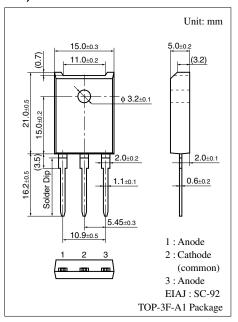
#### ■ Features

- $I_{F(AV)} = 20$  A rectification is possible
- Cathode-common dual type
- Low forward voltage V<sub>F</sub>
- TOP-3F-A1 package

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

Parameter		Symbol	Rating	Unit
Repetitive peak	MA3G751	$V_{RRM}$	40	V
reverse-voltage	MA3G751A		45	
Average forward current		I <sub>F(AV)</sub>	20	A
Non-repetitive peak forward- surge-current *		$I_{FSM}$	150	A
Junction temperature		$T_{j}$	-40 to +125	°C
Storage temperature		T <sub>stg</sub>	-40 to +125	°C

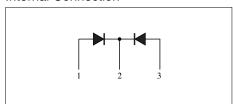
Note) \*: Half sine wave; 10 ms/cycle



#### Marking Symbol

MA3G751 : MA751MA3G751A: MA751A

#### Internal Connection

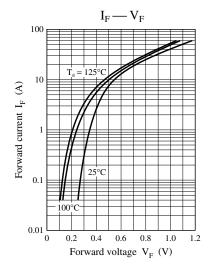


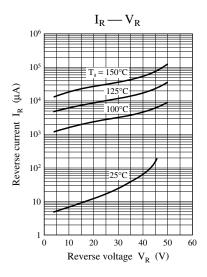
#### ■ Electrical Characteristics $T_a = 25$ °C

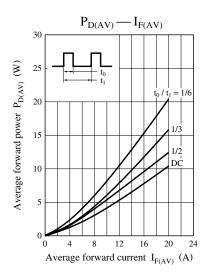
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	MA3G751	$I_R$	$V_R = 40 \text{ V}$			5	mA
	MA3G751A		V <sub>R</sub> = 45 V			5	
Forward voltage (DC)		$V_{\mathrm{F}}$	$I_F = 10 A$			0.55	V
High voltage rectification F		R <sub>th(j-c)</sub>	Smoothed current (between junction and case)			1.5	°C/W

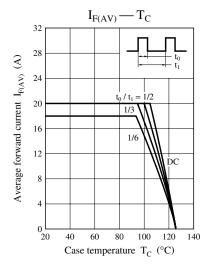
Note) Rated input/output frequency: 100 MHz

Note) The part number in the parenthesis shows conventional part number.









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