

MA3G751, MA3G751A (MA751, MA751A)

Silicon epitaxial planar type (cathode common)

For switching mode power supply

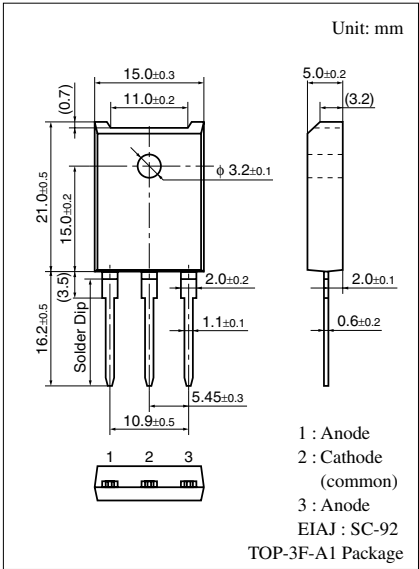
■ Features

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

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

Parameter	Symbol	Rating	Unit
Repetitive peak reverse-voltage	V_{RRM}	40	V
		45	
Average forward current	$I_{F(AV)}$	20	A
Non-repetitive peak forward-surge-current *	I_{FSM}	150	A
Junction temperature	T_j	-40 to +125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

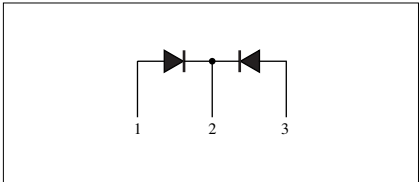
Note) *: Half sine wave; 10 ms/cycle



Marking Symbol

- MA3G751 : MA751
- MA3G751A: MA751A

Internal Connection

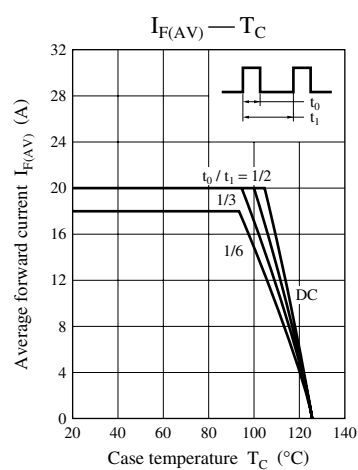
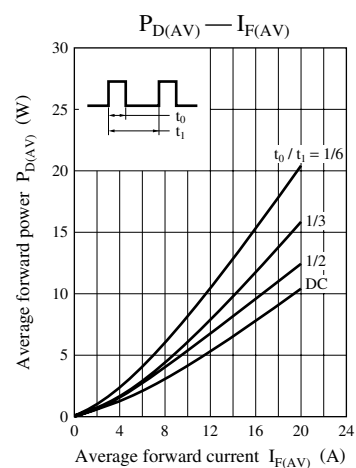
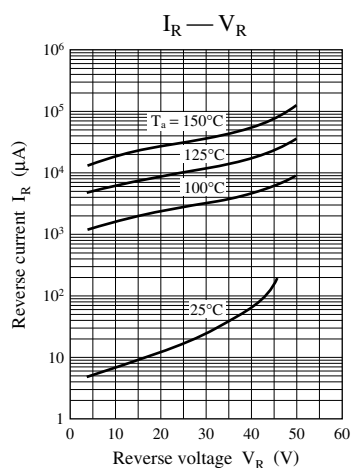
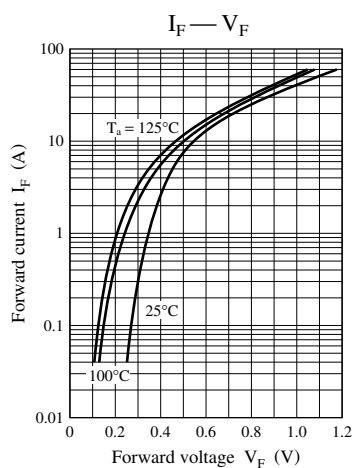


■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	MA3G751	$V_R = 40$ V			5	mA
	MA3G751A				5	
Forward voltage (DC)	V_F	$I_F = 10$ A			0.55	V
High voltage rectification	$R_{th(j-c)}$	Smoothed current (between junction and case)			1.5	$^\circ\text{C/W}$

Note) Rated input/output frequency: 100 MHz

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



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