Unit : mm

 $5.0\pm0.2$ 

 $2.0\pm0.1$ 

 $0.6\pm0.2$ 

3.2

## MA3G695 (MA695)

### Silicon planar type (cathode common)

For high-frequency rectification

### Features

- Cathode common dual type
- High reverse voltage V<sub>R</sub>
- $\bullet$  Low forward voltage  $V_{\text{F}}$
- $\bullet$  Fast reverse recovery time  $t_{\rm rr}$

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

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>	400	V
Non-repetitive peak reverse surge voltage	V <sub>RSM</sub>	400	V
Average forward current	I <sub>F(AV)</sub>	20	А
Non-repetitive peak forward surge current*	I <sub>FSM</sub>	120	А
Junction temperature	Tj	-40 to +150	°C
Storage temperature	T <sub>stg</sub>	-40 to +150	°C

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

# 10.9 ± 0.5 1 2 3 Image: Comparison of the second second

 $15.0\pm0.3$ 

 $11.0 \pm 0.2$ 

\$ 3.2 ± 0.1

2.0 ± 0.2

 $1.1\pm0.1$ 

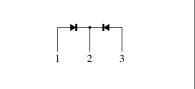
 $5.45 \pm 0.3$ 

0.7

 $21.0 \pm 0.5$  $15.0 \pm 0.2$ 

 $6.2 \pm 0.5$ 

12.5 Solder

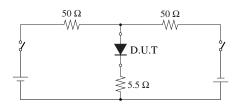


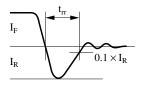
### Electrical Characteristics $T_a = 25^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Repetitive peak reverse current	I <sub>RRM1</sub>	$V_{RRM} = 400 \text{ V}, T_{C} = 25^{\circ}\text{C}$			50	μA
	I <sub>RRM2</sub>	$V_{RRM} = 400 \text{ V}, T_j = 150^{\circ}\text{C}$			10	mA
Forward voltage (DC)	V <sub>F</sub>	$I_F = 10 \text{ A}, T_C = 25^{\circ}\text{C}$			1	V
Reverse recovery time*	t <sub>rr</sub>	$I_F = 1 A, I_R = 1 A$			100	ns
Thermal resistance	R <sub>th(j-c)</sub>	Direct current (between junction and case)			1.5	°C/W
	R <sub>th(j-a)</sub>				41.6	°C/W

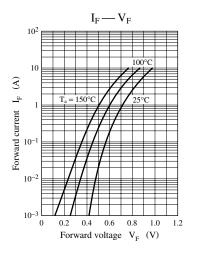
Note) 1. Rated input/output frequency: 10 MHz

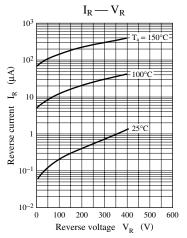
2. \*: t<sub>rr</sub> measuring circuit

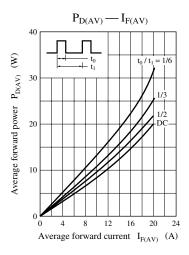


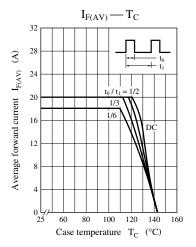


Note) The part number in the parenthesisi shows conbentional part number.









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