Unit : mm

 5.0 ± 0.2

 2.0 ± 0.1

 0.6 ± 0.2

3.2

MA3G695 (MA695)

Silicon planar type (cathode common)

For high-frequency rectification

Features

- Cathode common dual type
- High reverse voltage V_R
- \bullet Low forward voltage V_{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 _{RRM}	400	V
Non-repetitive peak reverse surge voltage	V _{RSM}	400	V
Average forward current	I _{F(AV)}	20	А
Non-repetitive peak forward surge current*	I _{FSM}	120	А
Junction temperature	Tj	-40 to +150	°C
Storage temperature	T _{stg}	-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 ± 0.3

 11.0 ± 0.2

\$ 3.2 ± 0.1

2.0 ± 0.2

 1.1 ± 0.1

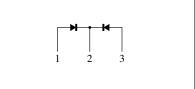
 5.45 ± 0.3

0.7

 21.0 ± 0.5 15.0 ± 0.2

 6.2 ± 0.5

12.5 Solder

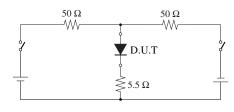


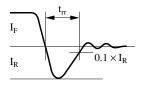
Electrical Characteristics $T_a = 25^{\circ}C$

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

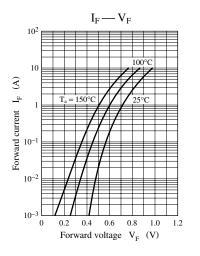
Note) 1. Rated input/output frequency: 10 MHz

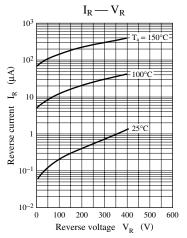
2. *: t_{rr} measuring circuit

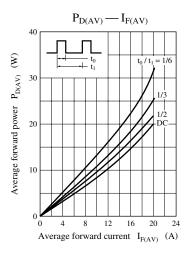


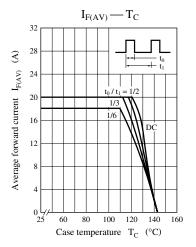


Note) The part number in the parenthesisi shows conbentional part number.









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