# MA3G655 (MA655)

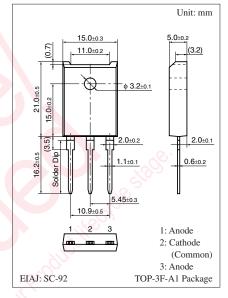
### Silicon planar type (cathode common)

For high-frequency rectification

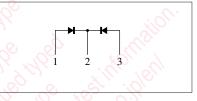
#### Features

- High reverse voltage  $V_R$
- $\bullet$  Low forward voltage  $V_{\rm F}$
- Fast reverse recovery time t<sub>rr</sub>

#### Absolute Maximum Ratings $T_a = 25^{\circ}C$ Parameter Symbol Unit Rating Repetitive peak reverse voltage V<sub>RRM</sub> 300 V Non-repetitive peak reverse 300 V V<sub>RSM</sub> surge voltage Forward current (Average) 20 I<sub>F(AV)</sub> А Non-repetitive peak forward 150 А I<sub>FSM</sub> surge current Junction temperature T<sub>i</sub> -40 to +150 °C Storage temperature T<sub>stg</sub> -40 to +150 °C



#### Internal Connection

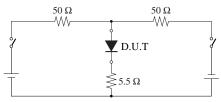


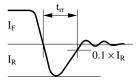
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 10 \text{ A}, T_C = 25^{\circ}\text{C}$	2		1.0	V
Repetitive peak reverse current	I <sub>RRM1</sub>	$V_{RRM} = 300 \text{ V}, T_{C} = 25^{\circ}\text{C}$	<u>, X</u>		20	μΑ
	I <sub>RRM2</sub>	$V_{RRM} = 300 \text{ V}, \text{ T}_{j} = 150^{\circ}\text{C}$	J		5	mA
Reverse recovery time *	t <sub>rr</sub>	$I_F = 1 A, I_R = 1 A$			50	ns
Thermal resistance (j-c)	R <sub>th(j-c)</sub>				1.5	°C/W
Thermal resistance (j-a)	R <sub>th(j-a)</sub>	VIST WAR			40	°C/W

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 2. Absolute frequency of input and output is 10 MHz.
- 3. \*: t<sub>rr</sub> measurement circuit

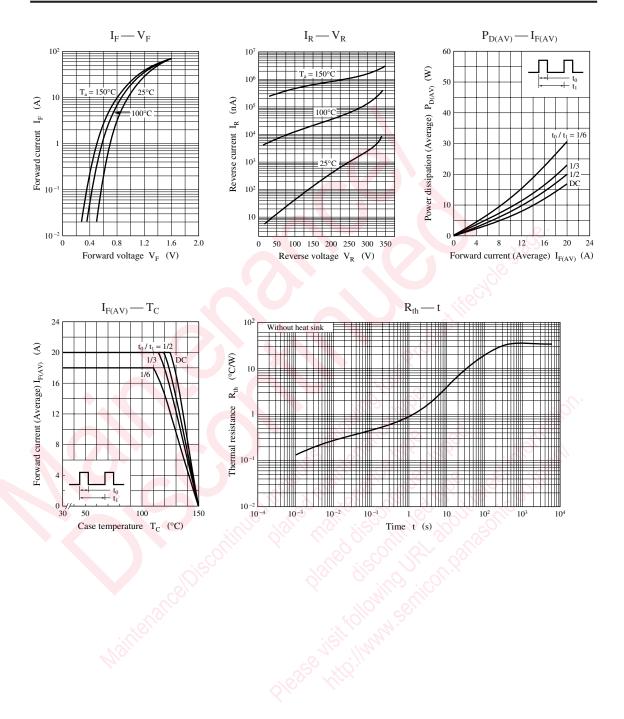




Note) The part number in the parenthesis shows conventional part number.

### MA3G655

### Panasonic



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