MA3G655 (MA655)

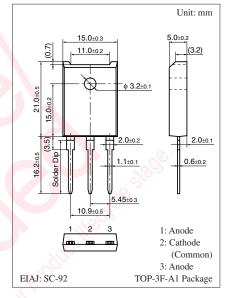
Silicon planar type (cathode common)

For high-frequency rectification

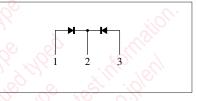
Features

- High reverse voltage V_R
- \bullet Low forward voltage $V_{\rm F}$
- Fast reverse recovery time t_{rr}

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



Internal Connection

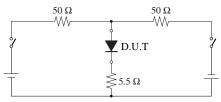


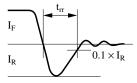
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

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

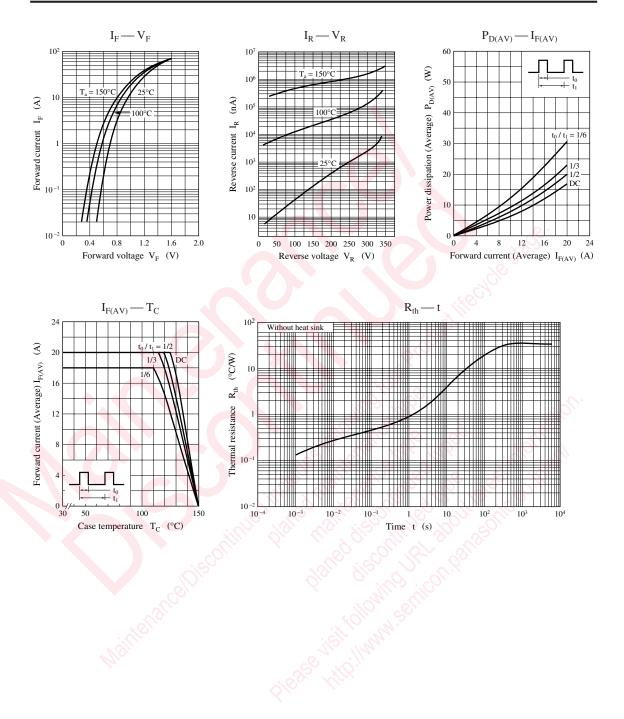




Note) The part number in the parenthesis shows conventional part number.

MA3G655

Panasonic



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