MA3G655 (MA655)

Silicon planar type (cathode common)

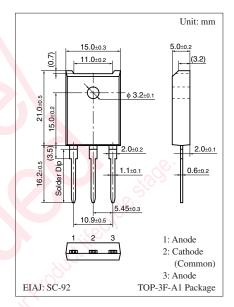
For high-frequency rectification

■ Features

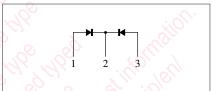
- High reverse voltage V_R
- ullet Low forward voltage V_F
- Fast reverse recovery time t_{rr}

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}	300	V
Non-repetitive peak reverse surge voltage	V _{RSM}	300	V
Forward current (Average)	I _{F(AV)}	20	A
Non-repetitive peak forward surge current	I _{FSM}	150	A
Junction temperature	T _j	-40 to +150	°C
Storage temperature	T_{stg}	-40 to +150	°C



Internal Connection

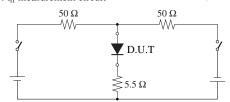


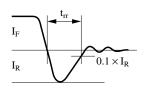
■ Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F}	$I_F = 10 \text{ A}, T_C = 25^{\circ}\text{C}$.01		1.0	V
Repetitive peak reverse current	I_{RRM1}	$V_{RRM} = 300 \text{ V}, T_C = 25^{\circ}\text{C}$	0.7		20	μΑ
	I _{RRM2}	$V_{RRM} = 300 \text{ V}, T_j = 150^{\circ}\text{C}$			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)}	WW. Bij			40	°C/W

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

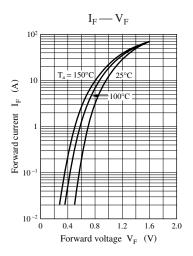
- 2. Absolute frequency of input and output is 10 MHz.
- 3. *: t_{rr} measurement circuit

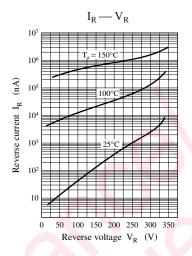


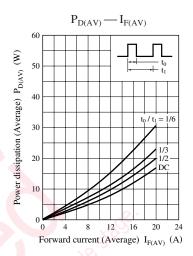


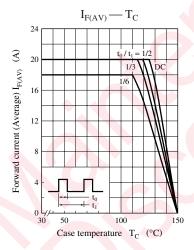
Note) The part number in the parenthesis shows conventional part number.

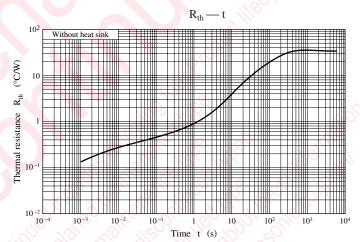
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