MA3D691 (MA6D91)

Silicon planar type

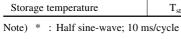
For high-frequency rectification

■ Features

- Low forward rise voltage V_F
- Fast reverse recovery time t_{rr}
- \bullet TO-220D (Full-pack package) with high dielectric breakdown voltage $> 5.0~\rm{kV}$
- Easy-to-mount, caused by its V cut lead end

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}	200	V
Non-repetitive peak reverse surge voltage	V _{RSM}	200	V
Average forward current	I _{F(AV)}	10	A
Non-repetitive peak forward surge current*	I _{FSM}	70	A
Junction temperature	T _j	-40 to +150	°C
Storage temperature	T_{stg}	-40 to +150	°C

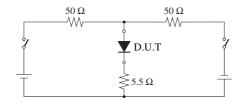


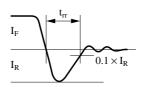
■ Electrical Characteristics $T_a = 25$ °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Repetitive peak reverse current	I_{RRM1}	$V_{RRM} = 200 \text{ V}, T_{C} = 25^{\circ}\text{C}$			100	μΑ
	I _{RRM2}	$V_{RRM} = 200 \text{ V}, T_j = 150^{\circ}\text{C}$			10	mA
Forward voltage (DC)	V_F	$I_F = 10 \text{ A}, T_C = 25^{\circ}\text{C}$			1.00	V
Reverse recovery time*	t _{rr}	$I_F = 1 \text{ A}, I_R = 1 \text{ A}$			100	ns
Thermal resistance	R _{th(j-c)}				3	°C/W
	R _{th(j-a)}				63	°C/W

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

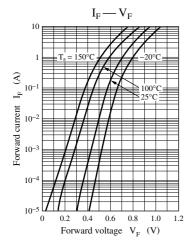
- 2. Tightening torque-max. $8 \text{ kg} \times \text{cm}$
- 3. *: t_{rr} measuring circuit

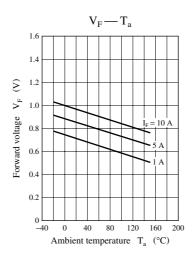


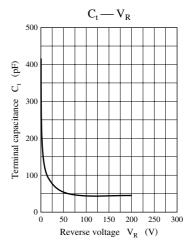


Note) The part number in the parenthesis shows conventional part number.

Panasonic 673







674 Panasonic

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