MA3U689

Silicon planar type

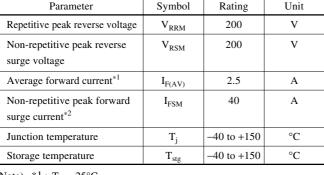
For high-frequency rectification

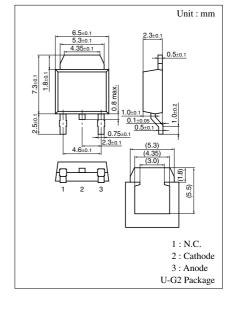
■ Features

- Small U-type package for surface mounting
- ullet Low-loss type with fast reverse recovery time t_{rr}
- Single type

■ 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*1	I _{F(AV)}	2.5	A
Non-repetitive peak forward surge current*2	I_{FSM}	40	A
Junction temperature	T_{j}	-40 to +150	°C
Storage temperature	T_{stg}	-40 to +150	°C





Note) *1 : $T_C = 25^{\circ}C$

*2: Half sine-wave; 10 ms/cycle

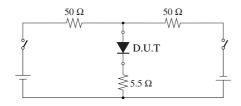
■ Electrical Characteristics $T_a = 25$ °C

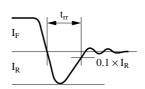
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Repetitive peak reverse current	I_{RRM1}	$V_{RRM} = 200 \text{ V}, T_{C} = 25^{\circ}\text{C}$			20	μΑ
	I _{RRM2}	$V_{RRM} = 200 \text{ V}, T_j = 150^{\circ}\text{C}$			2	mA
Forward voltage (DC)	V_F	$I_F = 2.5 \text{ A}, T_C = 25^{\circ}\text{C}$			0.98	V
Reverse recovery time*2	t _{rr}	$I_F = 1 A, I_R = 1 A$			40	ns
Thermal resistance*1	R _{th(j-c)}	Direct current (between junction and case)			12.5	°C/W

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

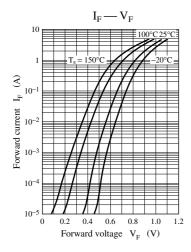
2. *1 : $T_C = 25^{\circ}C$

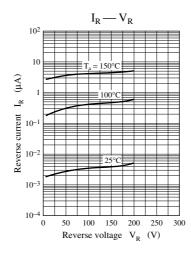
 $*2:t_{rr}$ measuring circuit

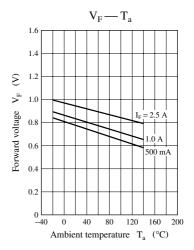


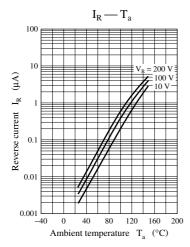


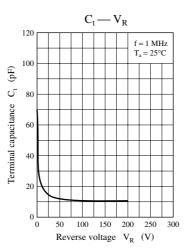
Panasonic 653











654 Panasonic

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