# **MA2Q737** (MA737)

## Silicon epitaxial planar type

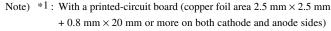
### For high-frequency rectification

#### ■ Features

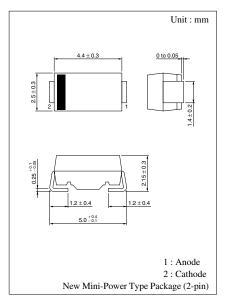
- Forward current (average) I<sub>F(AV)</sub>: 1.5 A type
- Reverse voltage (DC value) V<sub>R</sub>: 30 V
- Allowing automatic insertion with the emboss taping

## ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	30	V
Repetitive peak reverse voltage	$V_{RRM}$	30	V
Average forward current*1	I <sub>F(AV)</sub>	1.5	A
Non-repetitive peak forward surge current*2	$I_{FSM}$	60	A
Junction temperature	T <sub>j</sub>	-40 to +125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C



\*2: The peak-to-peak value in one cycle of 50 Hz sine-wave (non-repetitive)

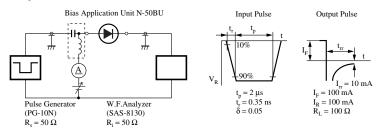


Marking Symbol: PC

### ■ Electrical Characteristics $T_a = 25$ °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 30 \text{ V}$			1	mA
Forward voltage (DC)	V <sub>F</sub>	$I_F = 2 A$			0.5	V
Terminal capacitance	C <sub>t</sub>	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		70		pF
Reverse recovery time*	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$			50	ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

- Note) 1. Schottky barrier diode is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
  - 2. Rated input/output frequency: 20 MHz
  - 3. \*: t<sub>rr</sub> measuring instrument

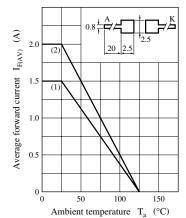


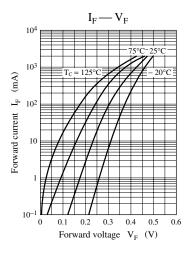
Note) The part number in the parenthesis shows conventional part number.

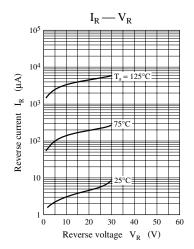
 $I_{F(AV)} \!-\!\!-\! T_a$ 

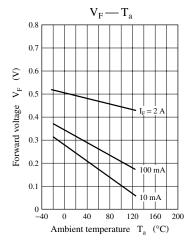
- (1) Printed-circuit board: Glass epoxy board
- (2) Printed-circuit board: Alumina board Copper foil for both A and K sides

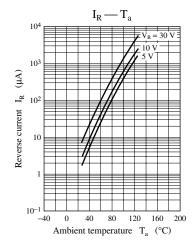
2.5 mm × 2.5 mm + 0.8 mm × 20 mm

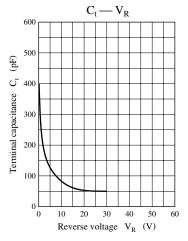












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