

# MA2Q737 (MA737)

Silicon epitaxial planar type

For high frequency rectification

## ■ Features

- $I_{F(AV)} = 1.5$  A rectification is possible
- $V_R = 30$  V is guaranteed
- Automatic insertion with the emboss taping is possible
- New Mini-power 2-pin package

## ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

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

Note) \*1: With a printed circuit board (copper foil area  $2.5\text{ mm} \times 2.5\text{ mm}$   
 $+ 0.8\text{ mm} \times 20\text{ mm}$  or more on both cathode and anode sides)

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

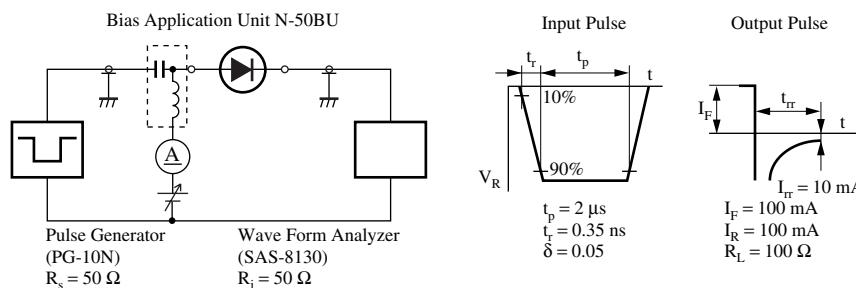
## ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

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

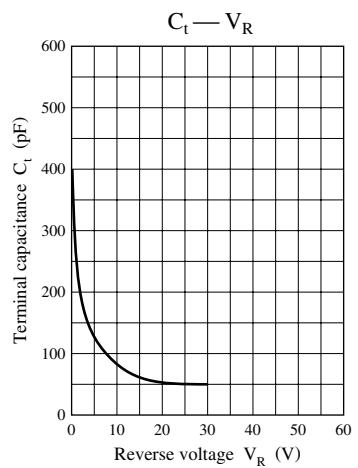
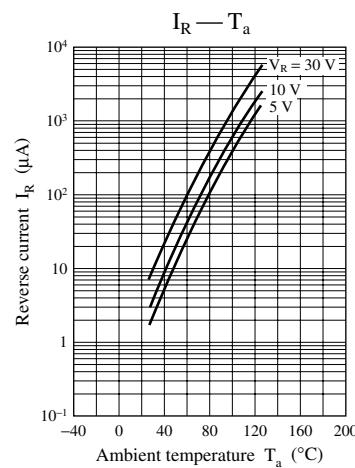
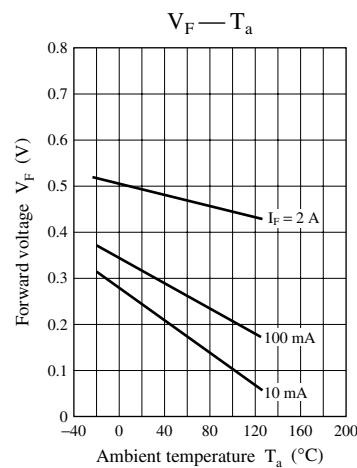
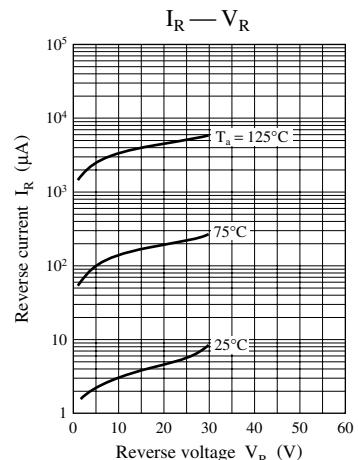
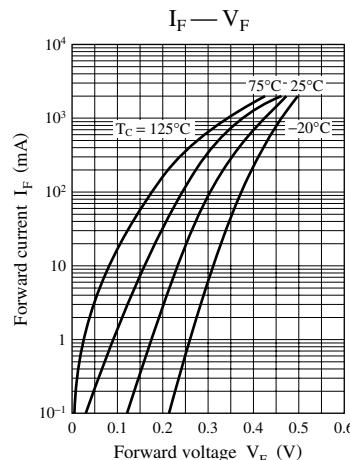
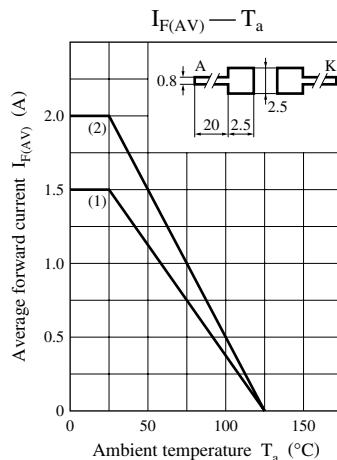
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

2. Rated input/output frequency: 20 MHz

3. \*:  $t_{rr}$  measuring instrument



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



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