

# MA2Q738 (MA738)

## Silicon epitaxial planar type

For high frequency rectification

### ■ Features

- $I_{F(AV)} = 1.5$  A rectification is possible
- $V_R = 40$  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)	$V_R$	40	V
Repetitive peak reverse-voltage	$V_{RRM}$	40	V
Average forward current *1	$I_{F(AV)}$	1.5	A
Non-repetitive peak forward-surge-current *2	$I_{FSM}$	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 mm × 2.5 mm + 0.8 mm × 20 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)

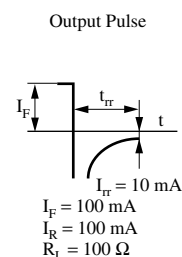
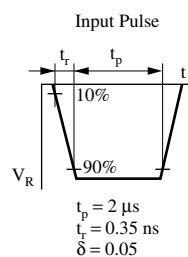
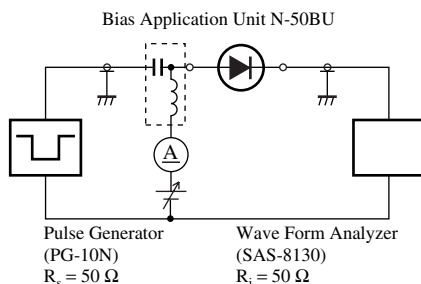
### ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 40$ V			2	mA
Forward voltage (DC)	$V_F$	$I_F = 2$ A			0.55	V
Terminal capacitance	$C_t$	$V_R = 10$ V, $f = 1$ MHz		70		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 100$ mA $I_{rr} = 10$ mA, $R_L = 100$ $\Omega$			50	ns

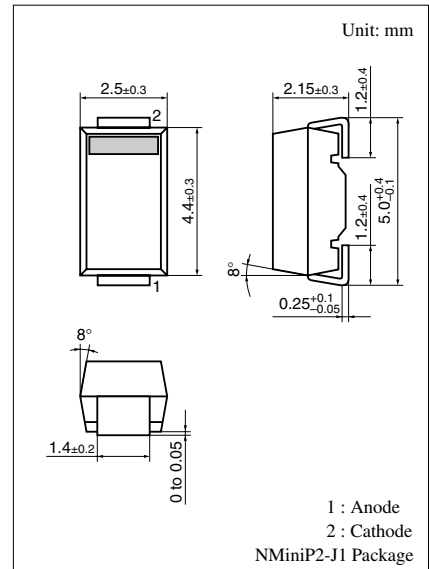
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

2. Rated input/output frequency: 20 MHz

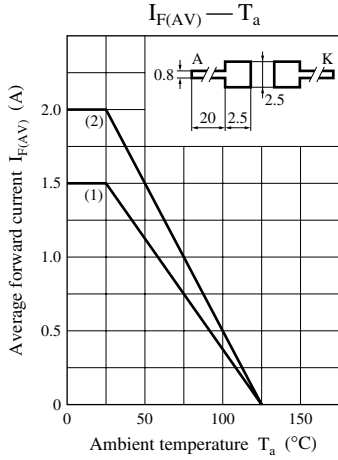
3. \*:  $t_{rr}$  measuring instrument



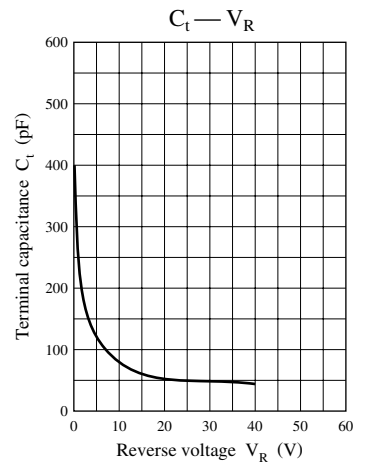
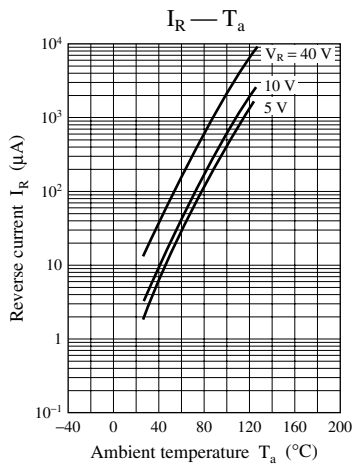
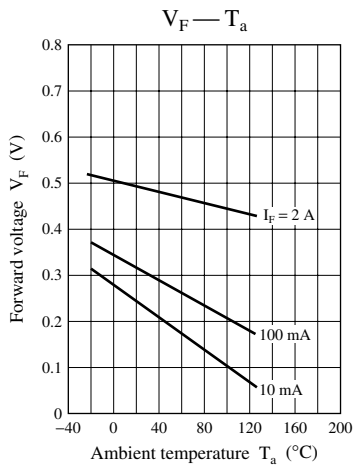
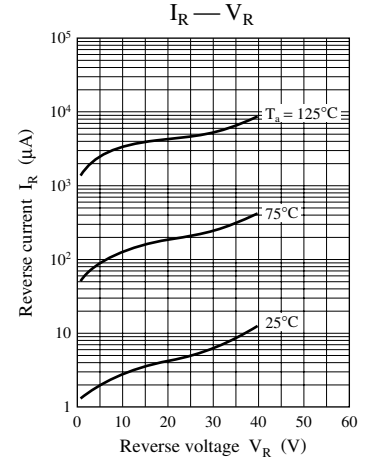
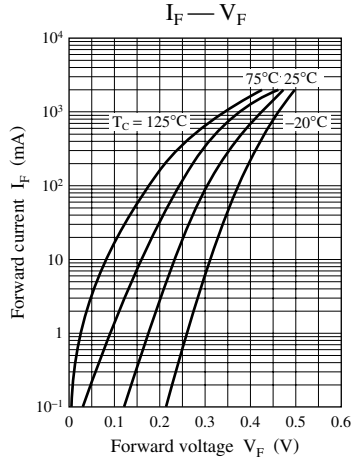
Note) The part number in the parenthesis shows conventional part number.



Marking Symbol: PD



(1) Printed circuit board: Glass epoxy board  
 (2) Printed circuit board: Alumina board  
 Copper foil: Both A and K sides  
 2.5 mm  $\times$  2.5 mm + 0.8 mm  $\times$  20 mm



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