

MA2Q739 (MA739)

Silicon epitaxial planar type

For high frequency rectification

■ Features

- Forward current (Average) $I_{F(AV)} = 0.7$ A rectification is possible
- Reverse voltage $V_R = 90$ V is guaranteed
- Automatic insertion with the emboss taping is possible

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	90	V
Maximum peak reverse voltage	V_{RM}	90	V
Forward current (Average) *1	$I_{F(AV)}$	0.7	A
Non-repetitive peak forward surge current *2	I_{FSM}	10	A
Junction temperature	T_j	-40 to +125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

Note) *1: Mounted on the printed circuit board (glass epoxy board)

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

■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

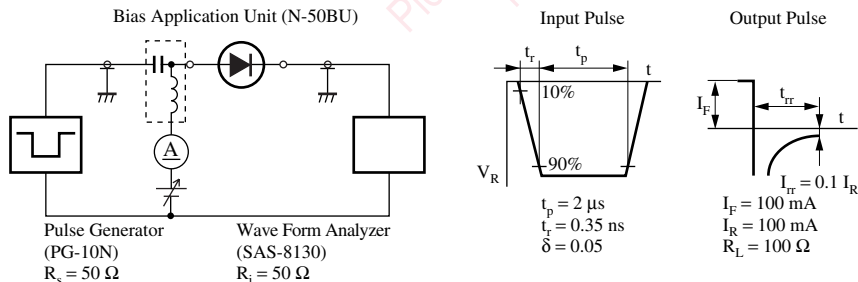
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 0.7$ A			0.8	V
Reverse current	I_R	$V_R = 90$ V			1.0	mA
Terminal capacitance	C_t	$V_R = 10$ V, $f = 1$ MHz		50		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA $I_{Tr} = 0.1$ I _R , $R_L = 100$ Ω			100	ns

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

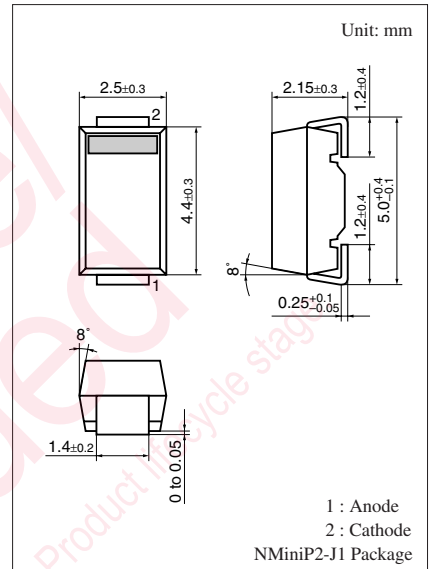
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

3. Absolute frequency of input and output is 10 MHz

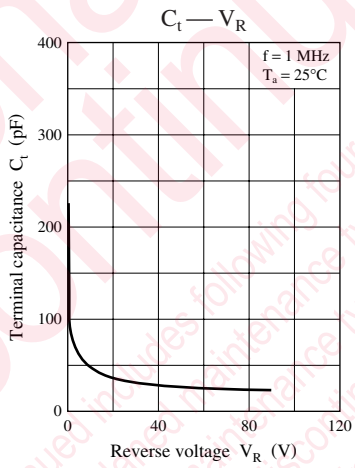
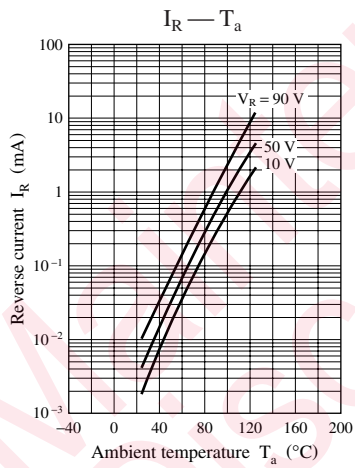
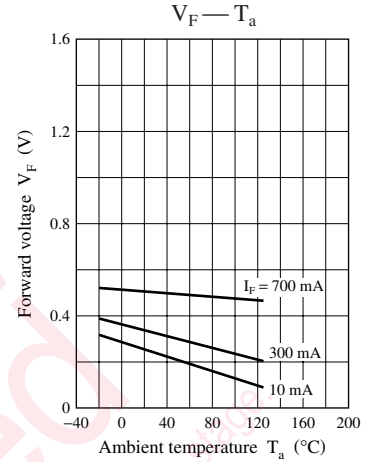
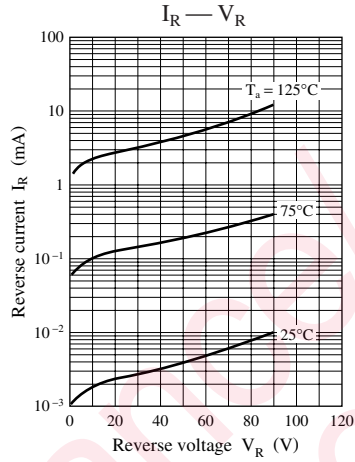
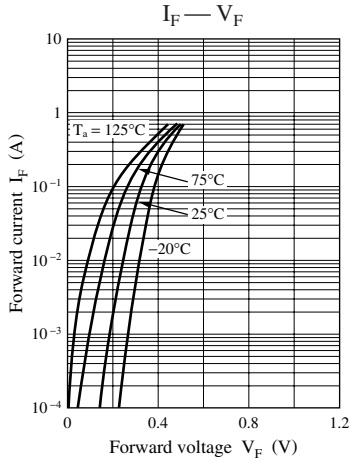
4. *: t_{rr} measurement circuit



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



Marking Symbol: PE



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ly to show the main characteristics and application circuit examples
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standard applications or general electronic equipment (such as office
and household appliances).

ng applications:

biles, traffic control equipment, combustion equipment, life support
reliability are required, or if the failure or malfunction of the prod-

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use of the products, therefore, ask for the most up-to-date Product
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er-off and mode-switching. Otherwise, we will not be liable for any

take into the consideration of incidence of break down and failure
n the systems such as redundant design, arresting the spread of fire
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