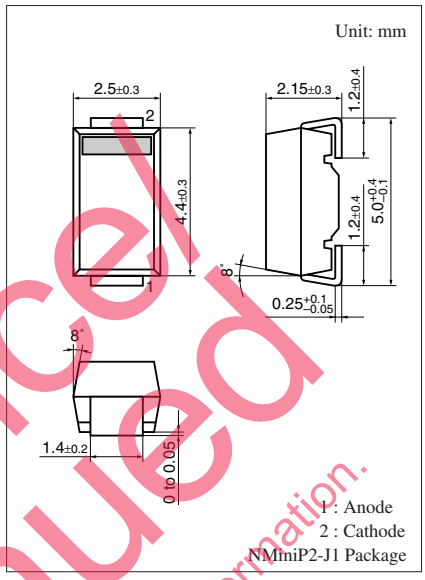
MA2Q737 (MA737)

Silicon epitaxial planar type

For high frequency rectification



Marking Symbol: PC

■ Features

- Forward current (Average) $I_{F(AV)}$ = 1.5 A rectification is possible
- Reverse voltage V_R = 30 V is guaranteed
- Automatic insertion with the emboss taping is possible

■ Absolute Maximum Ratings T_a = 25°C

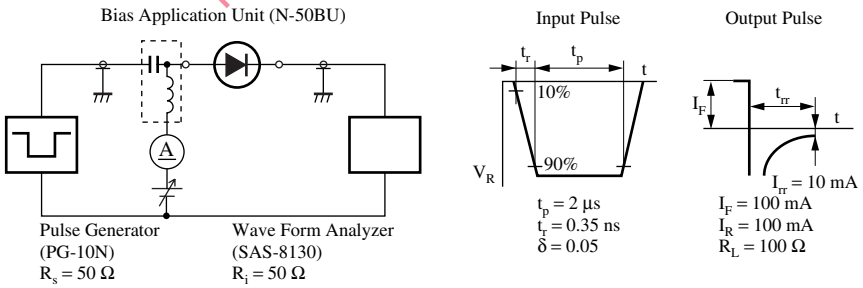
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Repetitive peak reverse voltage	V_{RRM}	30	V
Forward current (Average) *1	$I_{F(AV)}$	1.5	A
Non-repetitive peak forward surge current *2	I_{FSM}	60	A
Junction temperature	T_j	−40 to +125	°C
Storage temperature	T_{stg}	−40 to +125	°C

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°C ± 3°C

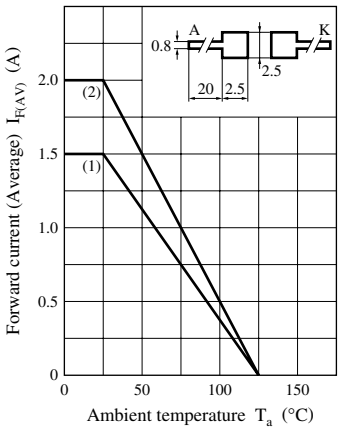
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 2.0 A			0.50	V
Reverse current	I_R	V_R = 30 V			1	mA
Terminal capacitance	C_t	V_R = 10 V, f = 1 MHz		70		pF
Reverse recovery time *	t_{rr}	I_F = I_R = 100 mA I_{rr} = 10 mA, R_L = 100 Ω			50	ns

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 20 MHz.
4. *: t_{rr} measurement circuit



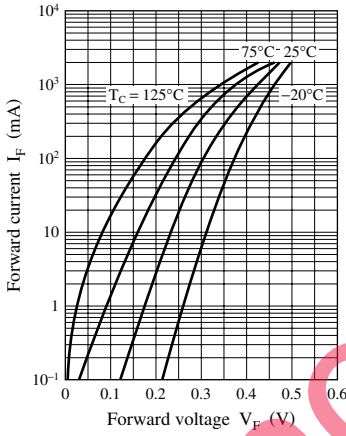
Note) The part number in the parenthesis shows conventional part number.

$I_{F(AV)}$ — T_a

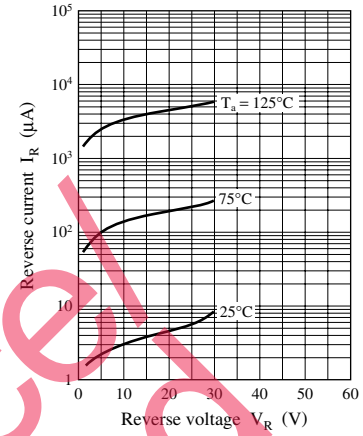


(1) Printed circuit board: Glass Epoxy PC board
(2) Printed circuit board: Alumina PC board
Copper foil: Both A and K sides
2.5 mm × 2.5 mm + 0.8 mm × 20 mm

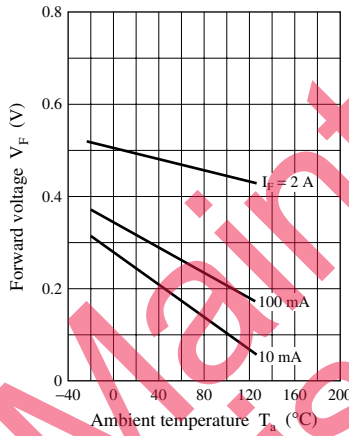
I_F — V_F



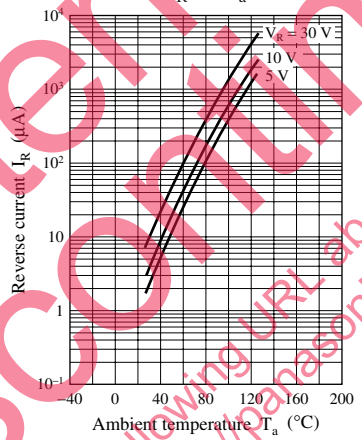
I_R — V_R



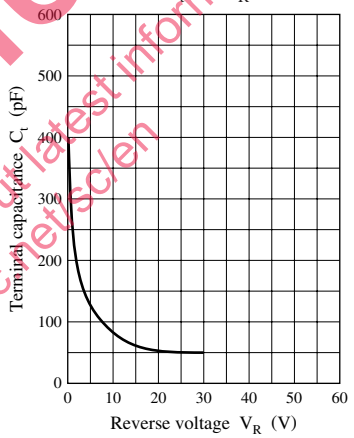
V_F — T_a



I_R — T_a



C_t — V_R



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