MA2Q705 (MA10705)

Silicon epitaxial planar type

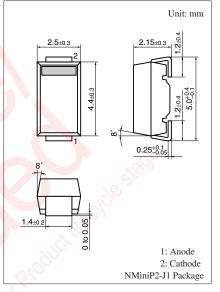
For high frequency rectification

Features

- Forward current (Average) $I_{F(AV)} = 1.5$ A rectification is possible
- Low forward voltage: $V_F < 0.37 V$

The second to maximum mattings $T_a = 25$ C				
Symbol	Rating	Unit		
V _R	30	V		
V _{RRM}	30	V		
I _{F(AV)}	1.5	Α		
I _{FSM}	30	А		
Tj	-40 to +125	°C		
T _{stg}	-40 to +125	°C		
	Symbol V _R V _{RRM} I _{F(AV)} I _{FSM} T _j	Symbol Rating V _R 30 V _{RRM} 30 I _{F(AV)} 1.5 I _{FSM} 30 T _j -40 to +125		





Marking Symbol: PK

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 $T_a = 25^{\circ}C \pm 3^{\circ}C$

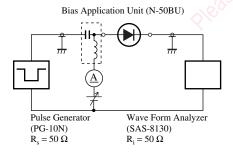
Parameter	Symbol	Conditions	Min	Тур	° Max	Unit
Forward voltage	V _F	$I_{\rm F} = 1.0 \ {\rm A}$	20 ⁻	SOL	0.37	V
Reverse current	I _R	$V_R = 30 V$	S al	0-	3	mA
Terminal capacitance	C _t	$V_{R} = 10 V, f = 1 MHz$	$\sim 2^{\circ}$	90		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$			50	ns
	5	$I_{rr} = 0.1 I_R, R_L = 100 \Omega$				

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.

V_R

3. Absolute frequency of input and output is 20 MHz.

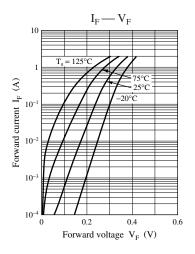


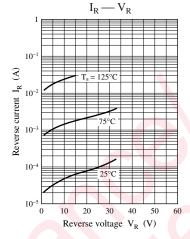
4. *: trr measurement circuit

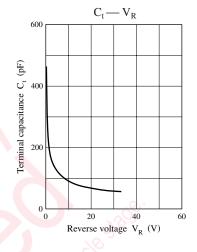
Input Pulse Output Pulse $I_F \rightarrow I_T$ $I_F = 100 \text{ mA}$ $I_F = 100 \text{ mA}$ $I_F = 100 \text{ mA}$

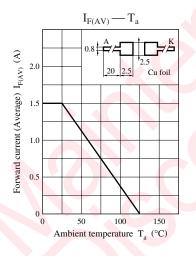
Note) The part number in the parenthesis shows conventional part number.

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