MA3X703 (MA10703)

Silicon epitaxial planar type

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

Parameter

Repetitive peak reverse voltage

Non-repetitive peak forward

Forward current (Average)

Reverse voltage

surge current * Junction temperature

Storage temperature

For high frequency rectification

Features

- Forward current (Average) $I_{F(AV)} = 500 \text{ mA}$ rectification is possible
- Small reverse current I_R (About 1/10 of I_R of the ordinary products)

Symbol

VR

V_{RRM}

I_{F(AV)}

I_{FSM}

Tj

T_{stg} Note) *: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

Rating

20

20

500

3

125

-55 to +125

 $25^{\circ}C \pm 2^{\circ}$

Unit

V

V

mA

A

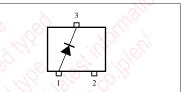
°C

°C

	Unit: mm
0.40 ^{+0.10} 3	0.16+0.10
2.8402 2.8402 2.8402	0.440.2
2.90 ^{+0.20}	10.00
0 to 0.1	1: Anode
NV I	2: N.C.
	3: Cathode
EIAJ: SC-59	Mini3-G1 Package

Marking Symbol: M4R

Internal Connection

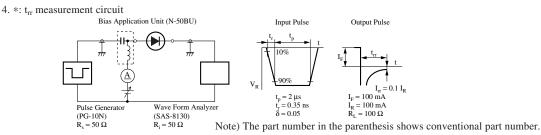


Electrical Characteristics T

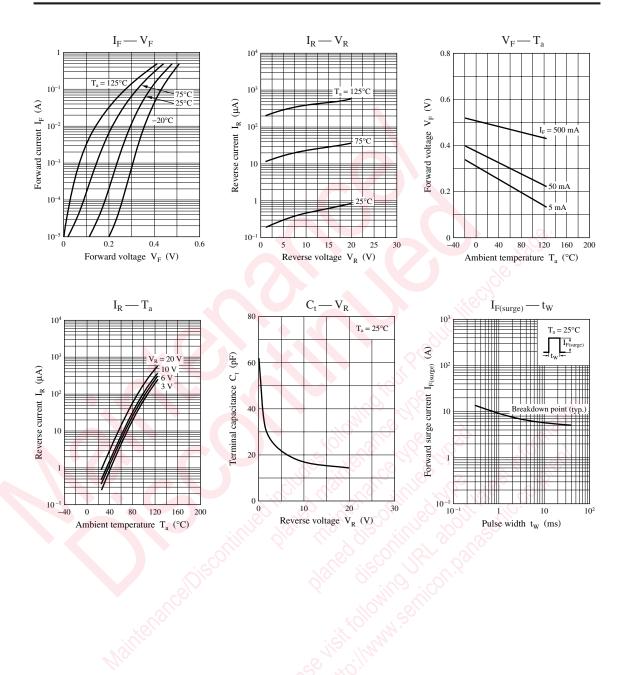
Electrical characteristics $\Gamma_a = 25^{\circ}C \pm 5^{\circ}C$									
Parameter	Symbol	Conditions	Min	Тур	Max	Unit			
Forward voltage	V _{F1}	I _F = 500 mA		0.50	0.55	V			
	V _{F2}	I _F = 10 mA	$\sim 2^{\circ}$	0.30	0.40				
Reverse current	I _{R1}	$V_R = 10 V$			10	μΑ			
	I _{R2}	$V_R = 5 V$			1				
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		60		pF			
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		5		ns			
No.		$I_{rr} = 0.1 I_R, R_L = 100 \Omega$							

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.
 - 3. Absolute frequency of input and output is 400 MHz.



Panasonic



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