MA3J702 (MA10702)

Silicon epitaxial planar type

For high-frequency rectification

Features

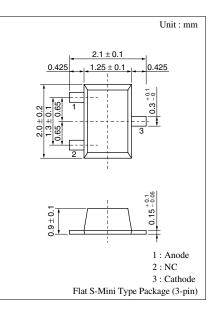
- S-mini type 3-pin package
- Allowing to rectify under $(I_{F(AV)} = 500 \text{ mA})$ condition
- Low I_R (reverse current) type. (About 1/10 of I_R of the ordinary products)

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

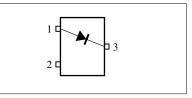
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V _R	20	V
Repetitive peak reverse voltage	V _{RRM}	20	V
Average forward current	I _{F(AV)}	500	mA
Non-repetitive peak forward surge current*	I _{FSM}	3	А
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

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

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



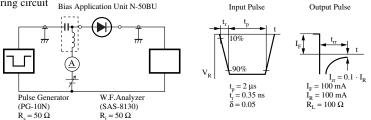
Marking Symbol: M4R Internal Connection



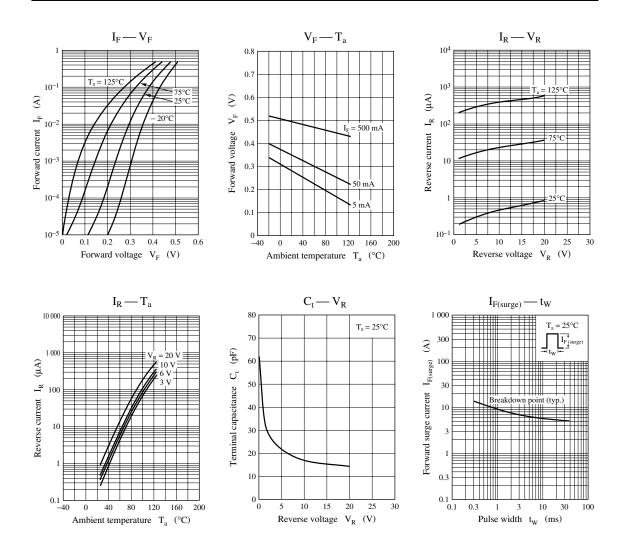
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _{R1}	$V_R = 5 V$			1	μA
	I _{R2}	V _R = 10 V			10	μΑ
Forward voltage (DC)	V _{F1}	$I_F = 10 \text{ mA}$		0.3	0.4	V
	V _{F2}	I _F = 500 mA		0.5	0.55	V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		60		pF
Reverse recovery time*	t _{rr}	$I_F = I_R = 100 \text{ mA}$		5		ns
		$I_{rr} = 0.1 \cdot I_R, R_L = 100 \ \Omega$				

Note) 1. Schottky barrier diode 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: 400 MHz
- 3. *: t_{rr} measuring circuit Bias Application Unit N-50BU



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



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