MA3J741 (MA741)

Silicon epitaxial planar type

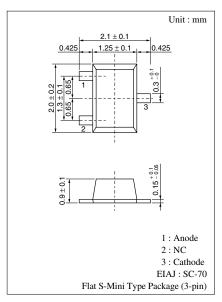
For switching circuits

■ Features

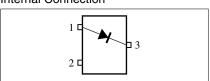
- S-mini type package (3-pin) of MA3X704A
- Low forward rise voltage (V_F) and satisfactory wave detection efficiency (η)
- Small temperature coefficient of forward characteristic
- Extremely low reverse current I_R

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	30	V
Peak reverse voltage	V_{RM}	30	V
Forward current (DC)	I_{F}	30	mA
Peak forward current	I_{FM}	150	mA
Junction temperature	T _j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C



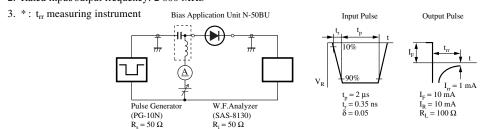
Marking Symbol: M1L Internal Connection



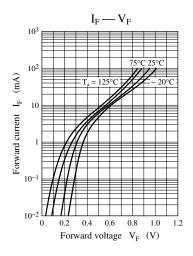
■ Electrical Characteristics $T_a = 25$ °C

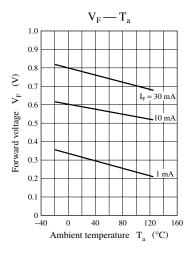
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 30 \text{ V}$			300	nA
Forward voltage (DC)	V_{F1}	$I_F = 1 \text{ mA}$			0.4	V
	V_{F2}	$I_F = 30 \text{ mA}$			1	V
Terminal capacitance	C _t	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time*	t _{rr}	$I_F = I_R = 10 \text{ mA}$ $I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$		1		ns
Detection efficiency	η	$V_{in} = 3 \ V_{(peak)}, \ f = 30 \ MHz$ $R_L = 3.9 \ k\Omega, \ C_L = 10 \ pF$		65		%

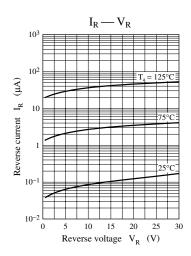
- Note) 1. Schottky barrier diode is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 2. Rated input/output frequency: 2 000 MHz

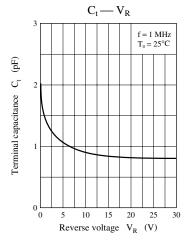


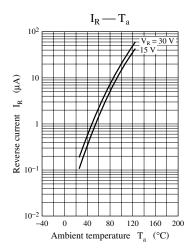
Note) The part number in the parenthesis shows conventional part number.











Panasonic 531

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