Switching Diodes Panasonic

# **MA3J142A** (MA142A)

### Silicon epitaxial planar type

For switching circuits

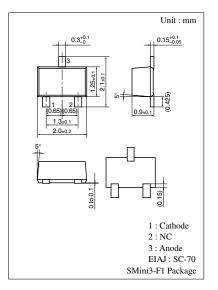
#### ■ Features

• Small S-mini type package allowing high density mounting

#### ■ Absolute Maximum Ratings $T_a = 25$ °C

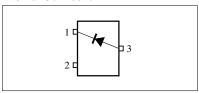
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V <sub>R</sub>	80	V
Peak reverse voltage	V <sub>RM</sub>	80	V
Forward current (DC)	$I_{\mathrm{F}}$	100	mA
Peak forward current	$I_{FM}$	225	mA
Non-repetitive peak forward surge current*	$I_{FSM}$	500	mA
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

Note) \* : t = 1 s



Marking Symbol: MB

#### Internal Connection

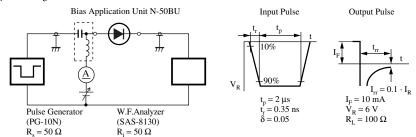


#### ■ Electrical Characteristics $T_a = 25$ °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 75 \text{ V}$			100	nA
Forward voltage (DC)	$V_{\rm F}$	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage (DC)	V <sub>R</sub>	$I_R = 100 \mu\text{A}$	80			V
Terminal capacitance	Ct	$V_R = 0 \text{ V, } f = 1 \text{ MHz}$			15	pF
Reverse recovery time*	t <sub>rr</sub>	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			10	ns
		$I_{rr} = 0.1 \cdot I_{R}, R_{L} = 100 \Omega$				

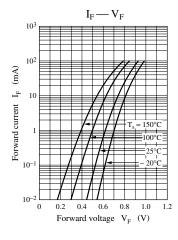
Note) 1. Rated input/output frequency: 100 MHz

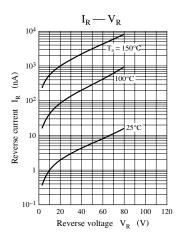
2. \*: t<sub>rr</sub> measuring circuit

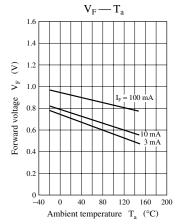


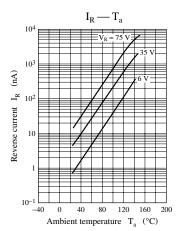
Note) The part number in the parenthesis shows conventional part number.

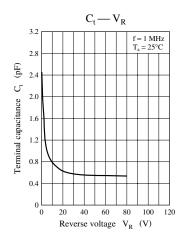
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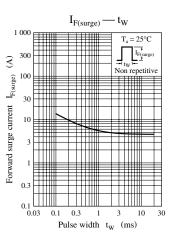












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