Unit : mm

MA3J142A (MA142A)

Silicon epitaxial planar type

For switching circuits

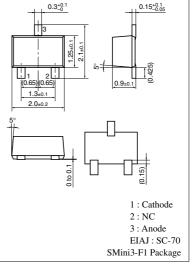
Features

Note) * : t = 1 s

• Small S-mini type package allowing high density mounting

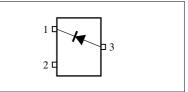
Parameter	Symbol	Rating	Unit				
Reverse voltage (DC)	V _R	80	V				
Peak reverse voltage	V _{RM}	80	V				
Forward current (DC)	I _F	100	mA				
Peak forward current	I _{FM}	225	mA				
Non-repetitive peak forward surge current*	I _{FSM}	500	mA				
Junction temperature	Tj	150	°C				
Storage temperature	T _{stg}	-55 to +150	°C				

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



Marking Symbol: MB

Internal Connection

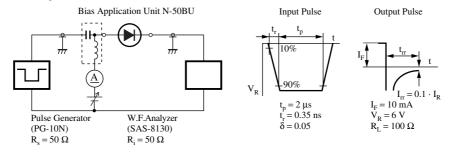


Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	$V_R = 75 V$			100	nA
Forward voltage (DC)	V _F	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage (DC)	V _R	$I_R = 100 \ \mu A$	80			V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$			15	pF
Reverse recovery time*	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			10	ns
		$I_{rr} = 0.1 \cdot I_R, R_L = 100 \ \Omega$				

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

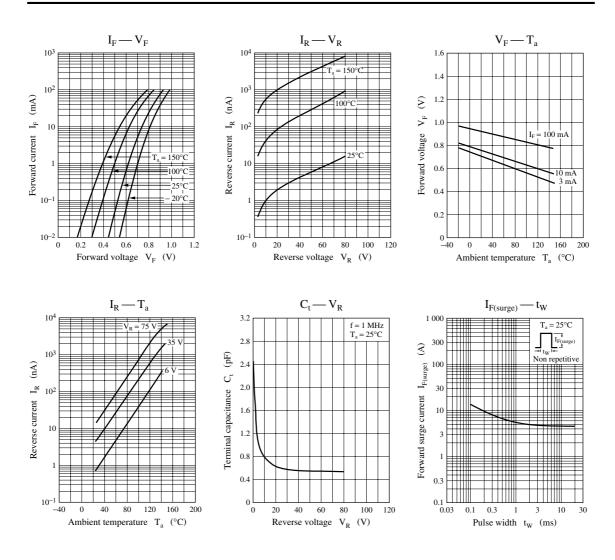
Note) 1. Rated input/output frequency: 100 MHz

2. * : t_{rr} measuring circuit



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

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