MA3J142E (MA142WK)

Silicon epitaxial planar type

For switching circuits

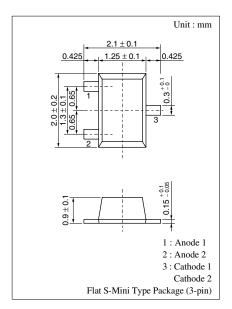
■ Features

- Small S-mini type package contained two elements, allowing highdensity mounting
- Short reverse recovery time t_{rr}
- Small terminal capacitance, C_t

■ Absolute Maximum Ratings $T_a = 25$ °C

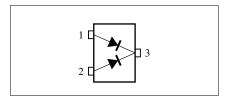
Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V_R	80	V
Peak reverse voltage		V_{RM}	80	V
Forward current	Single	I_{F}	100	mA
(DC)	Double		150	
Peak forward	Single	I_{FM}	225	mA
current	Double		340	
Non-repetitive peak	Single	I _{FSM}	500	mA
forward surge current*	Double		750	
Junction temperature		Tj	150	°C
Storage temperature		T_{stg}	-55 to +150	°C

Note) * : t = 1 s



Marking Symbol: MU

Internal Connection

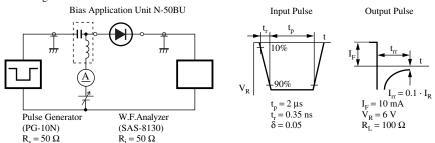


■ Electrical Characteristics $T_a = 25$ °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 75 \text{ V}$			100	nA
Forward voltage (DC)	V _F	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage (DC)	V _R	$I_R = 100 \mu A$	80			V
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$			2	pF
Reverse recovery time*	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{rr} = 0.1 \cdot I_R, R_L = 100 \Omega$				

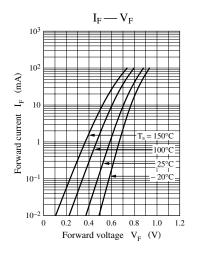
Note) 1. Rated input/output frequency: 100 MHz

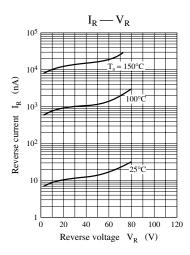
2. *: t_{rr} measuring circuit

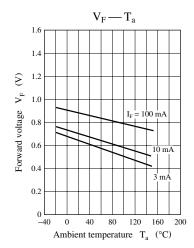


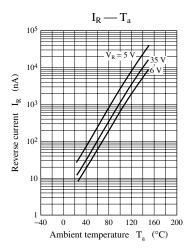
Note) The part number in the parenthesis shows conventional part number.

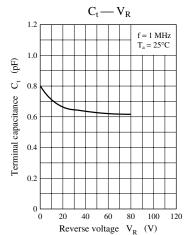
Panasonic 141

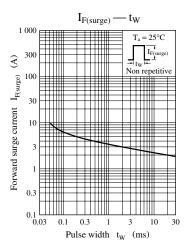












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