MA2J116 (MA116)

Silicon epitaxial planar type

For general purpose

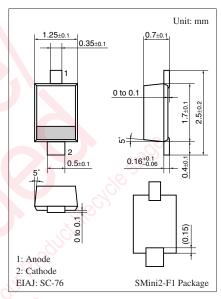
■ Features

- Allowing high-density mounting
- Soft recovery characteristic: $t_{rr} = 100 \text{ ns}$

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	40	V
Maximum peak reverse voltage	V_{RM}	40	V
Forward current (Average)	I _{F(AV)}	100	mA
Peak forward current	I_{FM}	225	mA
Non-repetitive peak forward surge current *	I_{FSM}	500	mA
Junction temperature	T_{j}	150	°C
Storage temperature	$T_{\rm stg}$	-55 to +150	°C

Note) *: t = 1 s



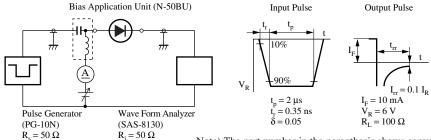
Marking Symbol: 1H

■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

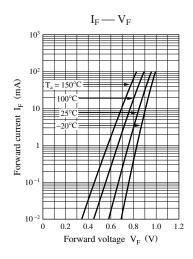
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 100 \text{ mA}$	37. 1	2/6	1.2	V
Reverse voltage	V _R	$I_R = 100 \mu A$	35	· VIC	*	V
Reverse current	I_{R1}	$V_R = 15 \text{ V}$	10	80.	5	nA
	I_{R2}	$V_R = 40 \text{ V}$		<i>y</i>	10	
	I_{R3}	$V_R = 35 \text{ V}, T_a = 100^{\circ}\text{C}$	1.9		100	μΑ
Terminal capacitance	C _t	$V_R = 6 \text{ V}, f = 1 \text{ MHz}$) *	1.0	2.0	pF
Forward dynamic resistance *1	$r_{\rm f}$	$I_F = 3 \text{ mA}, f = 30 \text{ MHz}$			3.6	Ω
Reverse recovery time *2	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			100	ns
		$I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$				

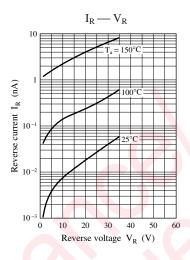
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

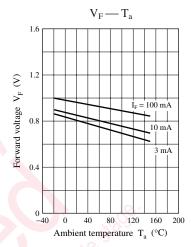
- 2. Absolute frequency of input and output is 10 MHz.
- 3. *1: YHP 4191A RF IMPEDANCE ANALYZER
 - *2: t_{rr} measurement circuit

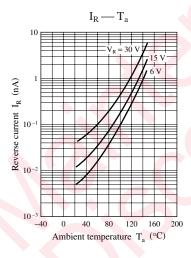


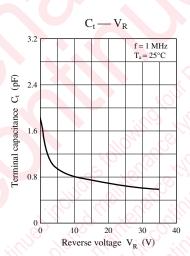
Note) The part number in the parenthesis shows conventional part number.











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