MA2J111 (MA111)

Silicon epitaxial planar type

For switching circuits

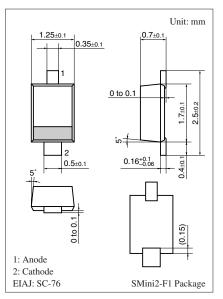
Features

- Allowing high-density mounting
- Short reverse recovery time t_{rr}
- \bullet Small terminal capacitance C_t
- High breakdown voltage: $V_R = 80 V$

Absolute Maximum Ratings $T_a = 25^{\circ}C$ Symbol Parameter Rating Unit v V_R 80 Reverse voltage V Maximum peak reverse voltage V_{RM} 80 Forward current 100 I_{F} mA Peak forward current I_{FM} 225 mA Non-repetitive peak forward IFSM 500 mA surge current * °C Junction temperature Ti 150

T_{stg}

-55 to +150



Marking Symbol: 1B

Note) *: t = 1 s

Storage temperature

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

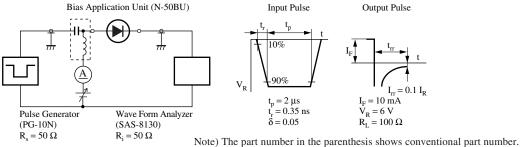
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 100 \text{ mA}$		0.95	1.20	V
Reverse voltage	V _R	$I_R = 100 \ \mu A$	80			V
Reverse current	I _R	V _R = 75 V			100	nA
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		0.6	1.2	pF
Reverse recovery time *	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{\rm rr}$ = 0.1 I_R , R_L = 100 Ω				

°C

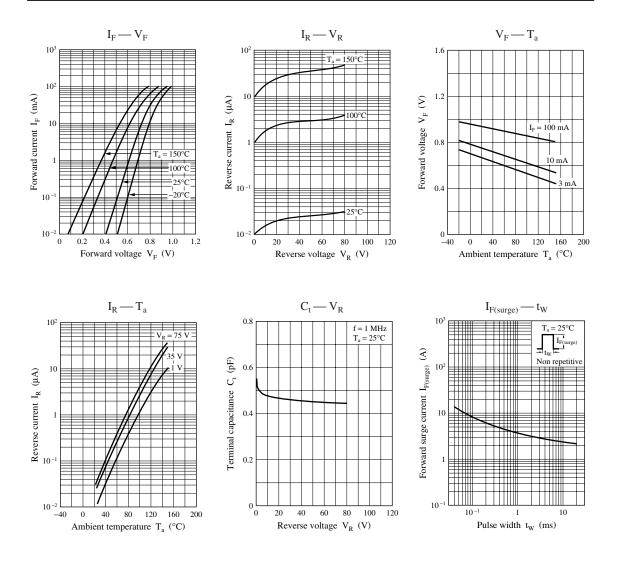
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 100 MHz.

3. *: t_{rr} measurement circuit



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