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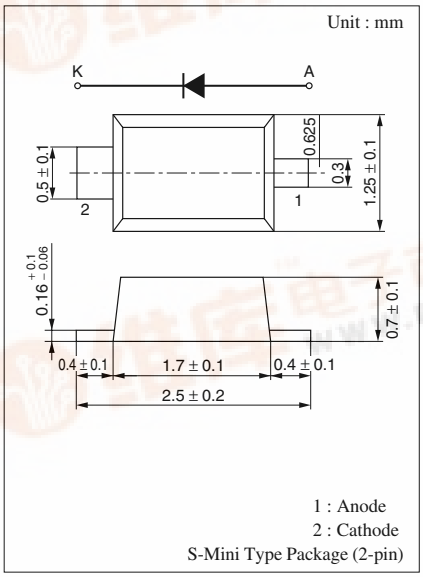
MA2J116 (MA116)

Silicon epitaxial planar type

For general purpose



Marking Symbol: 1H

■ Features

- Small S-mini type package, allowing high-density mounting
- Soft recovery characteristic (t_{rr} = 100 ns)

■ Absolute Maximum Ratings T_a = 25°C

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	40	V
Peak reverse voltage	V_{RM}	40	V
Average forward current	$I_{F(AV)}$	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_{stg}	−55 to +150	°C

Noe) * : t = 1 s

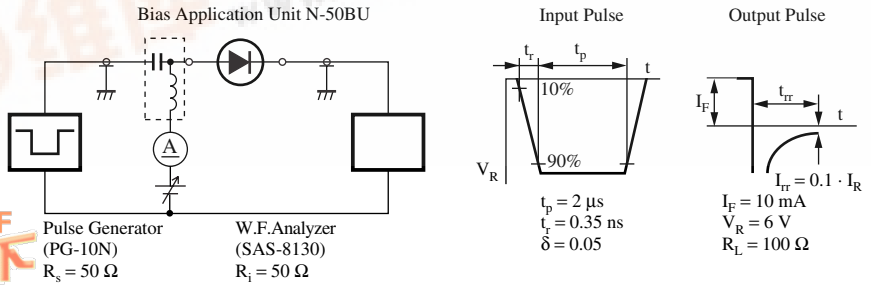
■ Electrical Characteristics T_a = 25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_{R1}	V_R = 15 V			5	nA
	I_{R2}	V_R = 40 V			10	nA
	I_{R3}	V_R = 35 V, T_a = 100°C			100	µA
Forward voltage (DC)	V_F	I_F = 100 mA			1.2	V
Reverse voltage (DC)	V_R	I_R = 100 µA	35			V
Terminal capacitance	C_t	V_R = 6 V, f = 1 MHz		1.0	2.0	pF
Forward dynamic resistance*1	r_f	I_F = 3 mA, f = 30 MHz			3.6	Ω
Reverse recovery time*2	t_{rr}	I_F = 10 mA, V_R = 6 V I_{rr} = 0.1 · I_R, R_L = 100 Ω			100	ns

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

2. *1 : YHP 4191A PF IMPEDANCE ANALYZER

*2 : t_{rr} measuring circuit



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

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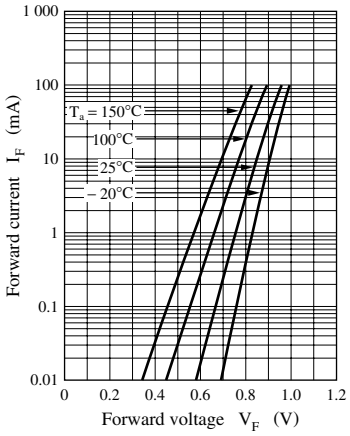
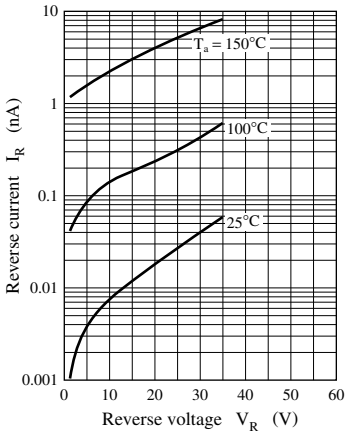
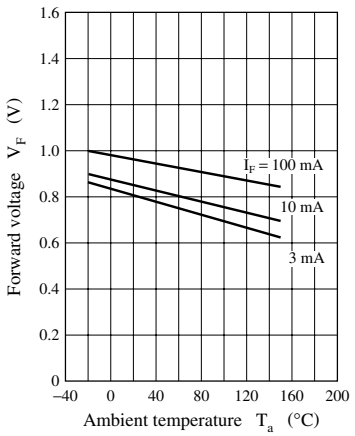
I_F — V_F



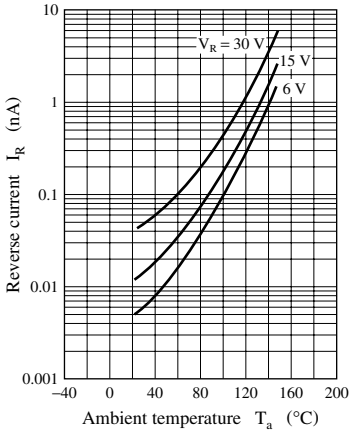
I_R — V_R



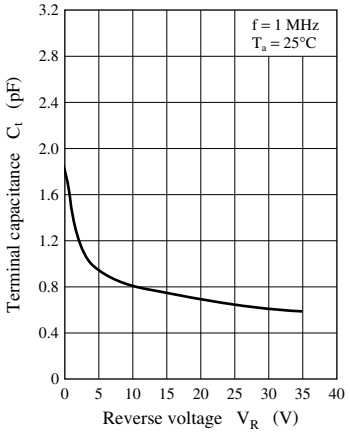
V_F — T_a



I_R —T_a



C_t — V_R



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