

MA2Z001

Silicon epitaxial planar type

For switching circuit

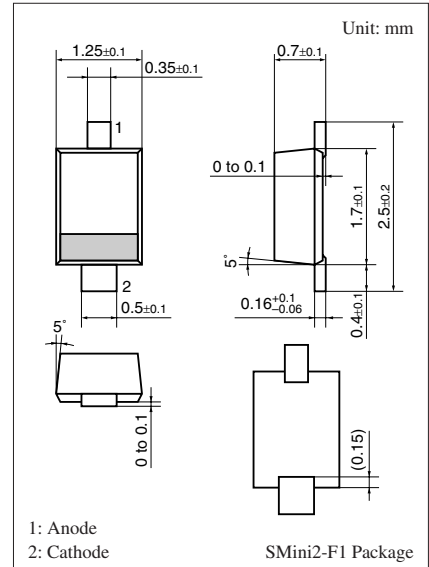
■ Features

- High breakdown voltage: $V_R = 200$ V
- Small terminal capacitance
- Suitable for high-density mounting
- S-Mini type 2-pin package

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	200	V
Repetitive peak reverse voltage	V_{RRM}	250	V
Average forward current	$I_{F(AV)}$	100	mA
Repetitive peak forward current	I_{FRM}	225	mA
Non-repetitive peak forward surge current *	I_{FSM}	500	mA
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Note) *: $t = 1$ s



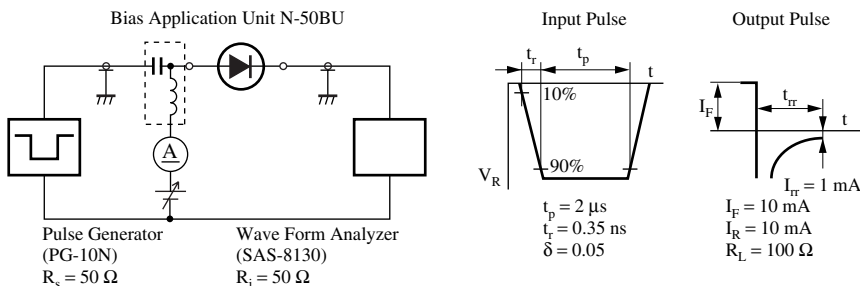
Marking Symbol: 1K

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 200$ V			1.0	μA
Forward voltage (DC)	V_F	$I_F = 100$ mA			1.2	V
Terminal capacitance	C_t	$V_R = 0$ V, $f = 1$ MHz			3.0	pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 10$ mA $I_{rr} = 1$ mA, $R_L = 100 \Omega$			60	ns

Note) 1. Rated input/output frequency: 20 MHz

2. *: t_{rr} measuring instrument



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