Switching Diodes

Panasonic

MA2Z001

Silicon epitaxial planar type

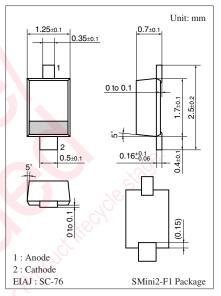
For switching circuits

Features

- High breakdown voltage: $V_R = 200 V$
- \bullet Small terminal capacitance C_t
- Suitable for high-density mounting

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V _R	200	v
Repetitive peak reverse voltage	V _{RRM}	250	V
Forward current (Average)	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	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C



Marking Symbol: 1K

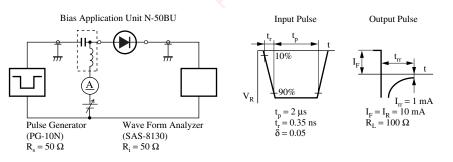
Note) *: t = 1 s

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 mA	$\sim 2^{\circ}$		1.2	V	
Reverse current	I _R	$V_{R} = 200 V$			1.0	μΑ	
Terminal capacitance	Ct	$V_{R} = 0 V, f = 1 MHz$			3.0	pF	
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$			60	ns	
		$I_{rr} = 1 \text{ mA}$, $R_L = 100 \Omega$					

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring method for diodes.
2. Absolute frequency of input and output is 20 MHz.

3. *: t_{rr} measurement circuit



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