

MA2ZD180G

Silicon epitaxial planar type

For super high speed switching

■ Features

- Low forward voltage V_F

■ Package

- Code
SMini2-F3
- Pin Name
1: Anode
2: Cathode

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	20	V
Repetitive peak reverse voltage	V_{RRM}	25	V
Forward current (Average) *1	$I_{F(AV)}$	500	mA
Non-repetitive peak forward surge current *2	I_{FSM}	2	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

■ Marking Symbol: 2P

Note) *1: Mounted on an alumina PC board

*2: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

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

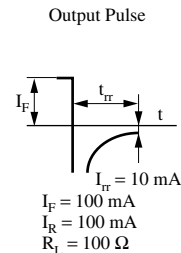
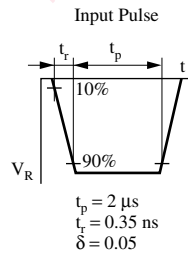
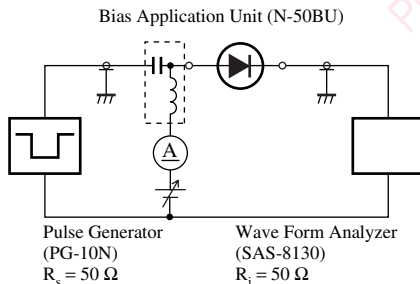
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 500 \text{ mA}$			0.42	V
Reverse current	I_R	$V_R = 20 \text{ V}$			200	μA
Terminal capacitance	C_t	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		100		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100 \text{ mA}$ $I_{tr} = 10 \text{ mA}, R_L = 100 \Omega$		7		ns

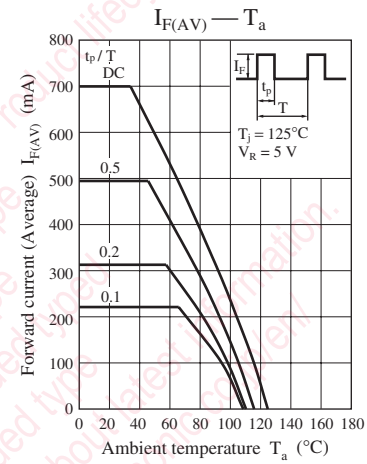
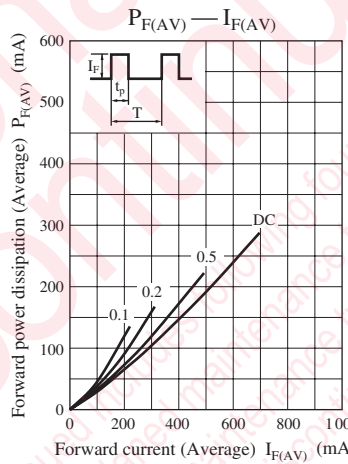
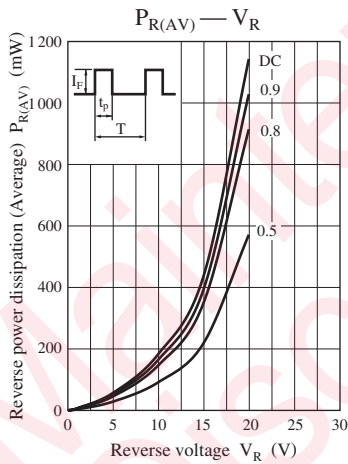
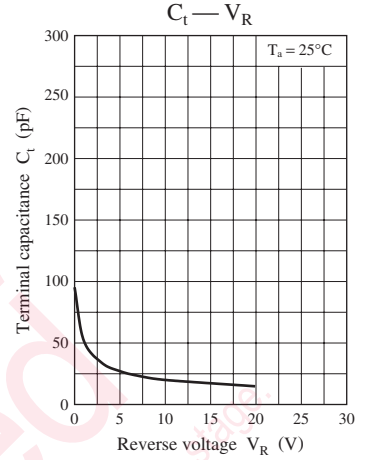
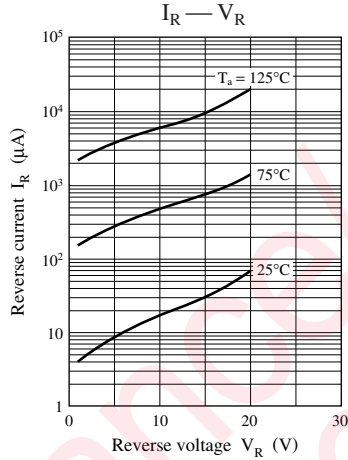
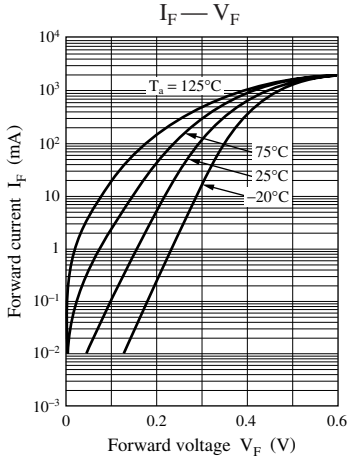
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

3. Absolute frequency of input and output is 250 MHz.

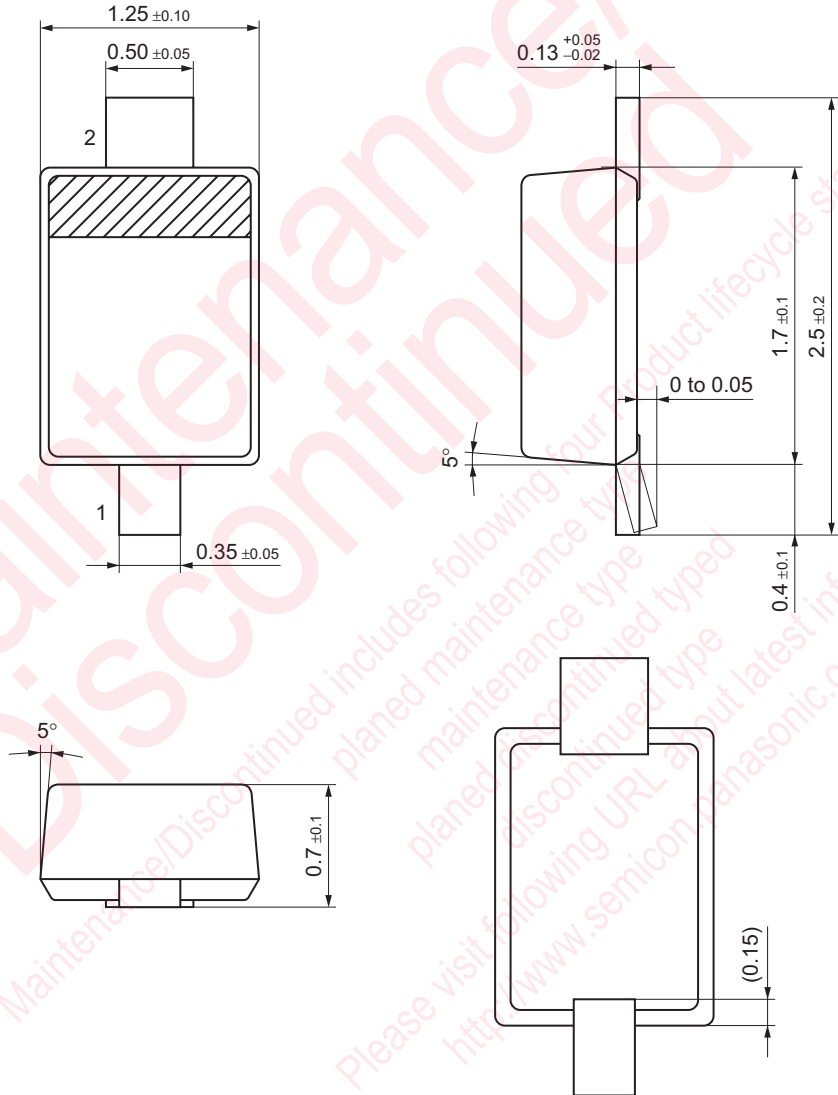
4. *: t_{rr} measurement circuit





SMini2-F3

Unit: mm



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