

# MA2ZD18

## Silicon epitaxial planar type

For super high speed switching

### ■ Features

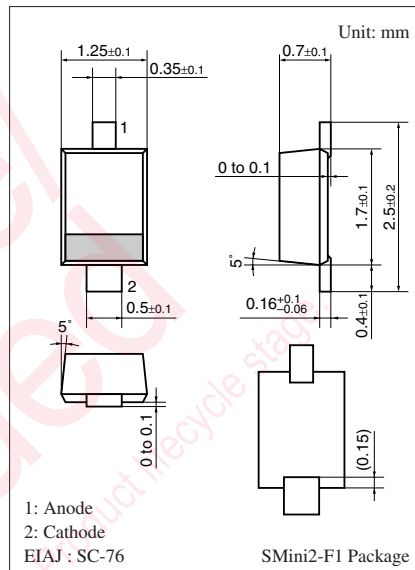
- Low forward voltage  $V_F$

### ■ 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	$^\circ\text{C}$

Note) \*1: Mounted on an alumina PC board

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



1: Anode  
2: Cathode  
EIAJ : SC-76

Marking Symbol: 2P

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

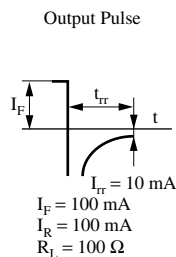
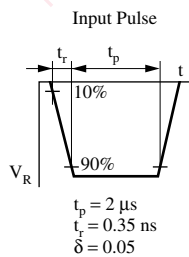
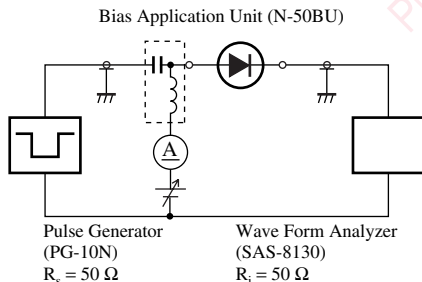
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 500 \text{ mA}$			0.42	V
Reverse current	$I_R$	$V_R = 20 \text{ V}$			200	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		100		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 100 \text{ mA}$ $I_{rr}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

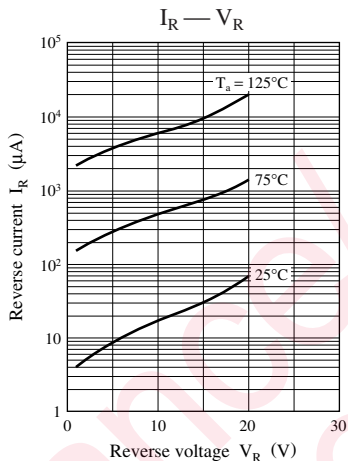
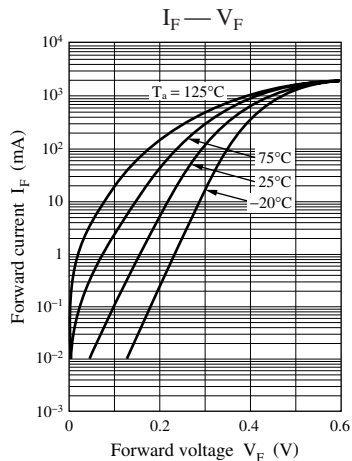
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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





Maintenance/Discontinued

Maintenance/Discontinued includes following four Product lifecycle stage.

- planned maintenance type
- maintenance type
- planned discontinued type
- discontinued type

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