## **MA2Z748**

### Silicon epitaxial planar type

For super high speed switching For small current rectification

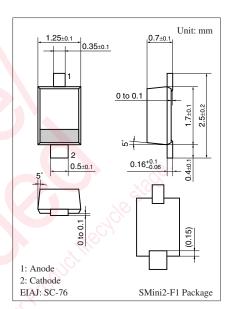
#### ■ Features

- Low V<sub>F</sub> type of MA3X720
- Low forward voltage V<sub>F</sub> and good rectification efficiency
- Optimum for high frequency rectification because of its short reverse recovery time t<sub>rr</sub>

#### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	20	V
Repetitive peak reverse voltage	V <sub>RRM</sub>	20	V
Forward current (Average)	I <sub>F(AV)</sub>	300	mA
Non-repetitive peak forward surge current *	$I_{FSM}$	3	A
Junction temperature	Tj	125	°C
Storage temperature	$T_{stg}$	-55 to +125	°C

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



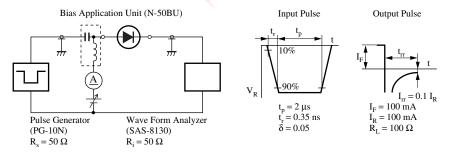
Marking Symbol: 2K

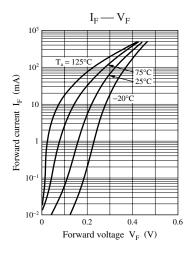
#### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

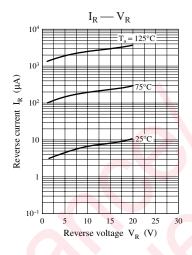
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 300 \text{ mA}$	80		0.4	V
Reverse current	$I_R$	$V_R = 10 \text{ V}$			30	μΑ
Terminal capacitance	$C_{t}$	$V_R = 0 V, f = 1 MHz$	7.7	60		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		5		ns
		$I_{rr} = 0.1 I_R, R_L = 100 \Omega$				

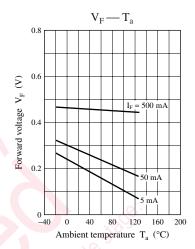
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

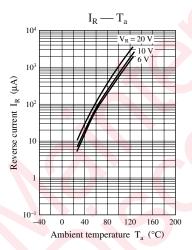
- This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 400 MHz.
- 4.\*: t<sub>rr</sub> measurement circuit

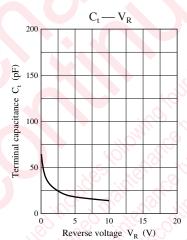


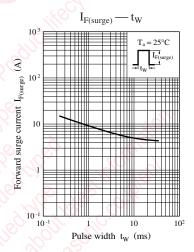












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