# MA3Z792D (MA792WA), MA3Z792E (MA792WK)

# Silicon epitaxial planar type

For super high speed switching For small current rectification

### Features

- Two MA3Z792 (MA792) is contained in one package
- Forward current (Average)  $I_{F(AV)} = 100 \text{ mA}$  rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time t<sub>rr</sub>
- Low forward voltage V<sub>F</sub> and good rectification efficiency

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

Parameter		Symbol	Rating	Unit	
Reverse voltage		$V_R$	30	V	
Repetitive peak reverse voltage		V <sub>RRM</sub>	30	V	
Forward current	Single	$I_{\mathrm{F}}$	100	mA	
	Double *1		70		
Peak forward	Single	$I_{FM}$	300	mA	
current	Double *1		200	in.	
Non-repetitive peak forward surge current *2		$I_{FSM}$	1	A	
Junction temperature		T <sub>j</sub>	125	C.C	
Storage temperature		T <sub>stg</sub>	-55 to +125	°C	



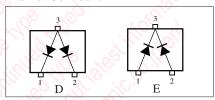
\*2: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

# Unit: mm 0.3±0.1 0.3±0.1 0.15±0.1 0.9±0.1 0

### Marking Symbol

MA3Z792D: M3Y
 MA3Z792E: M3Z

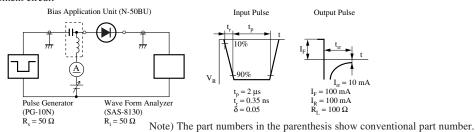
### Internal Connection



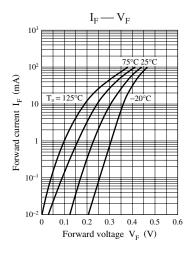
### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

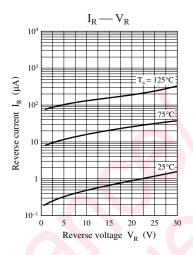
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	I <sub>F</sub> = 100 mA			0.55	V
Reverse current	$I_R$	$V_R = 30 \text{ V}$			15	μA
Terminal capacitance	C <sub>t</sub>	$V_R = 0 V, f = 1 MHz$		20		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		2		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

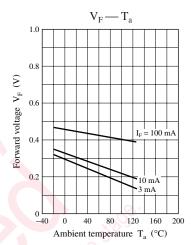
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
  - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
  - 3. Absolute frequency of input and output is 250 MHz.
  - 4.\*: t<sub>rr</sub> measurement circuit

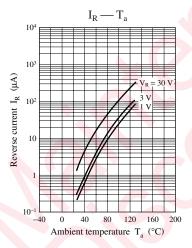


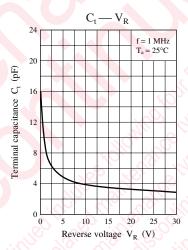
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