# MA3Z792 (MA792)

### Silicon epitaxial planar type

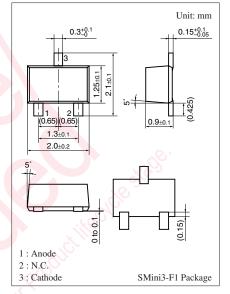
For super high speed switching For small current rectification

#### Features

- High-density mounting is possible
- Forward current (Average)  $I_{F(AV)} = 100$  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

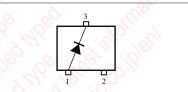
Parameter	Symbol	Rating	Unit			
Reverse voltage	V <sub>R</sub>	30	V			
Repetitive peak reverse voltage	V <sub>RRM</sub>	30	V			
Peak forward current	I <sub>FM</sub>	300	mA			
Forward current (Average)	I <sub>F(AV)</sub>	100	mA			
Non-repetitive peak forward surge current *	I <sub>FSM</sub>	1	A			
Junction temperature	Tj	125	S°C			
Storage temperature	T <sub>stg</sub>	-55 to +125	°C			





#### Marking Symbol: M3T

#### Internal Connection



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

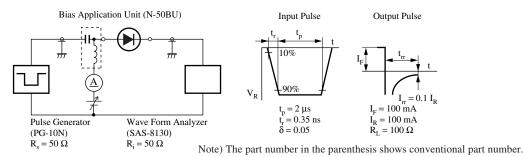
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

	u					
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	I <sub>F</sub> = 100 mA	<i>.?</i> ~		0.55	V
Reverse current	I <sub>R</sub>	$V_R = 30 V$			15	μΑ
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		20		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		2.0		ns
		$I_{rr} = 0.1 I_R, R_L = 100 \Omega$				

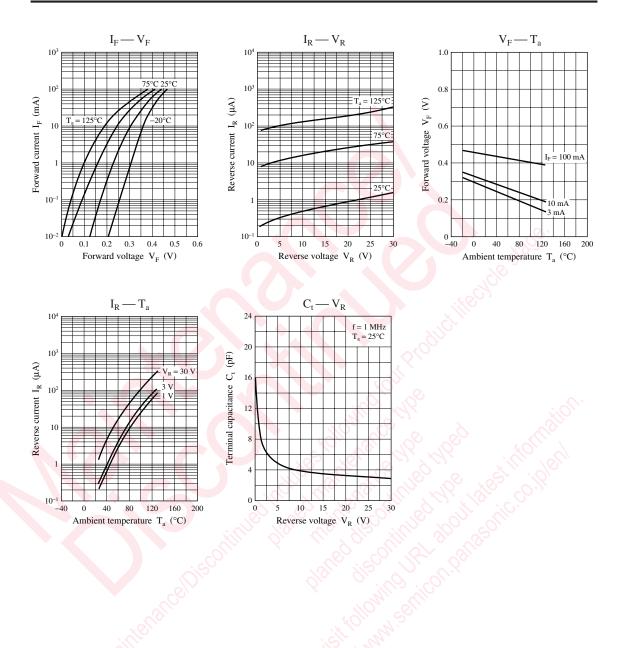
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 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.\*: trr measurement circuit



## **Panasonic**



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