# MA3Z792 (MA792)

# Silicon epitaxial planar type

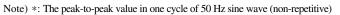
For super high speed switching For small current rectification

### Features

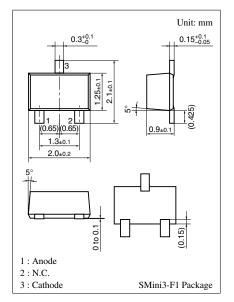
- High-density mounting is possible
- $I_{F(AV)} = 100$  mA rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time (t<sub>rr</sub>)
- Low forward voltage V<sub>F</sub> and good rectification efficiency
- S-Mini type 3-pin package

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	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
Average forward current	I <sub>F(AV)</sub>	100	mA
Non-repetitive peak forward- surge-current *	I <sub>FSM</sub>	1	А
Junction temperature	Tj	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C

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

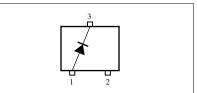


### Electrical Characteristics $T_a = 25^{\circ}C$



#### Marking Symbol: M3T

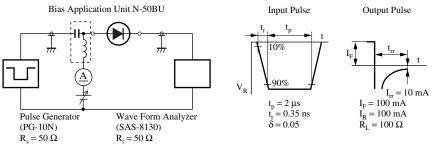
#### Internal Connection



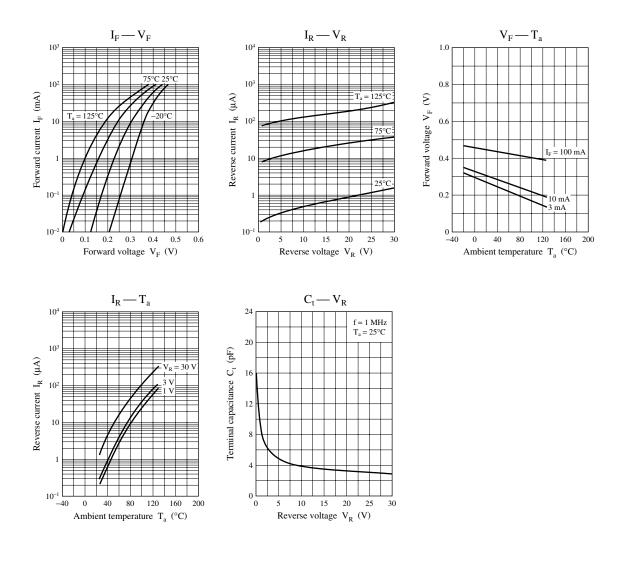
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I <sub>R</sub>	$V_R = 30 V$			15	μΑ
Forward voltage (DC)	V <sub>F</sub>	$I_F = 100 \text{ mA}$			0.55	V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		20		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		2.0		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

Note) 1. 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.

2. Rated input/output frequency: 250 MHz 3. \*: t<sub>rr</sub> measuring instrument



Note) The part number in the parenthesis shows conventional part number.



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