

MA3Z792DG, MA3Z792EG

Silicon epitaxial planar type

For super high speed switching

For small current rectification

■ Features

- Two MA3Z792DG is contained in one package
- Forward current (Average) $I_{F(AV)} = 100$ mA rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}
- Low forward voltage V_F and good rectification efficiency

■ Package

- Code
SMINI3-F2
- Pin Name
MA3Z792DG MA3Z792EG
1: Cathode 1 1: Anode 1
2: Cathode 2 2: Anode 2
3: Anode 3: Cathode

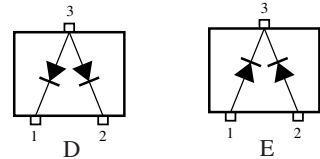
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Repetitive peak reverse voltage	V_{RRM}	30	V
Forward current	Single	I_F	100
	Double *1		
Peak forward current	Single	I_{FM}	300
	Double *1		
Non-repetitive peak forward surge current *2	I_{FSM}	1	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

■ Marking Symbol

MA3Z792DG: M3Y
MA3Z792EG: M3Z

■ Internal Connection



Note) *1: Value of each diode in double diodes used.

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

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

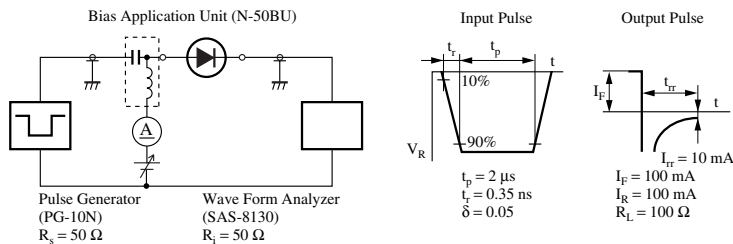
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 100$ mA			0.55	V
Reverse current	I_R	$V_R = 30$ V			15	μA
Terminal capacitance	C_t	$V_R = 0$ V, $f = 1$ MHz		20		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA $I_{tr} = 10$ mA, $R_L = 100 \Omega$		2		ns

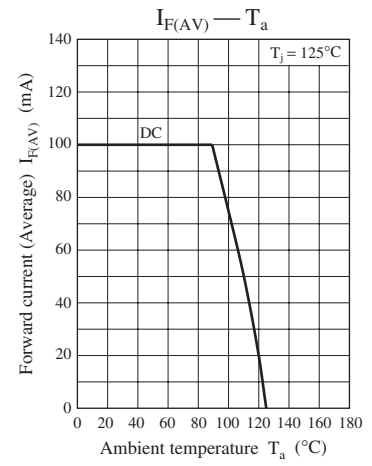
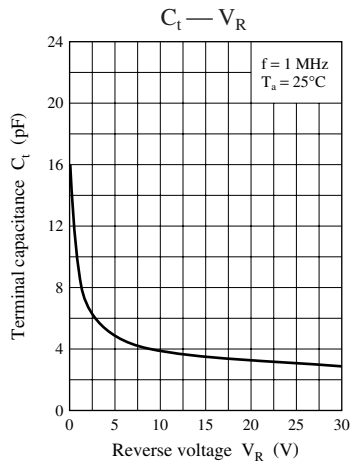
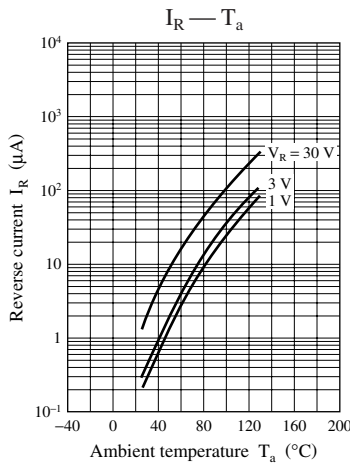
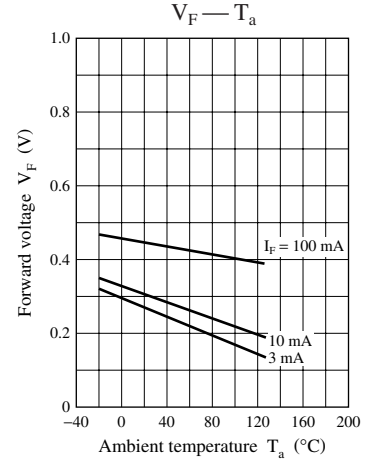
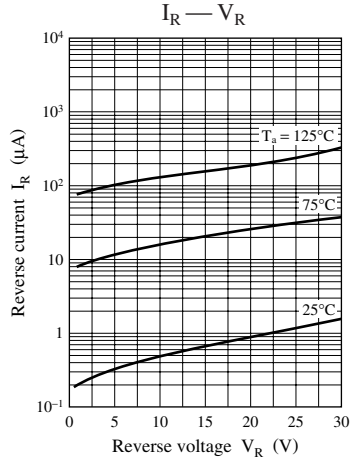
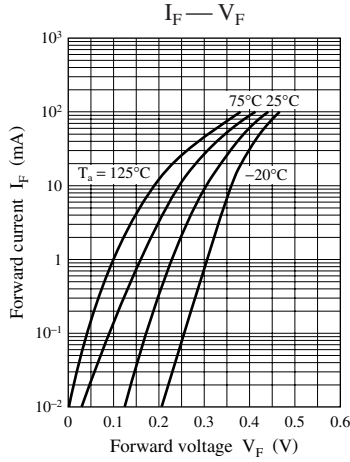
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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.

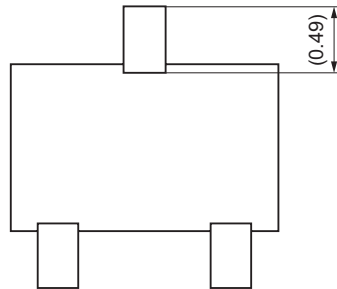
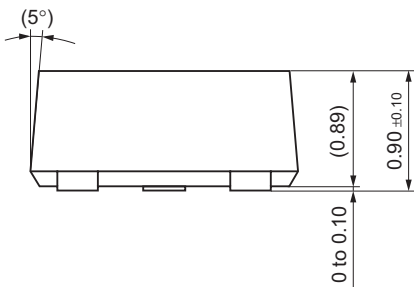
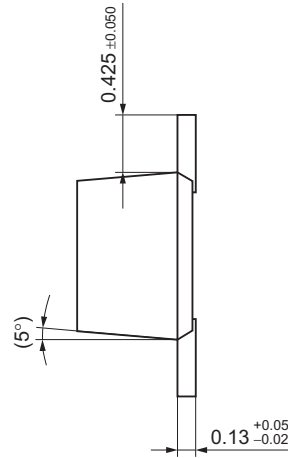
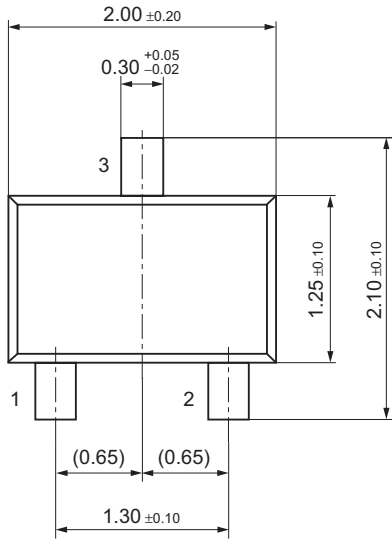
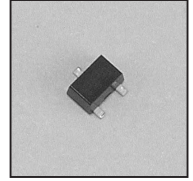
4.*: t_{rr} measurement circuit





SMini3-F2

Unit: mm



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