

MA3Z792D (MA792WA)

Silicon epitaxial planar type

For super-high speed switching circuit

For small current rectification

■ Features

- Two MA3Z792s diodes (anode common) are contained in the S-mini type 3-pin package
- Allowing to rectify under ($I_{F(AV)} = 100$ mA) condition
- Optimum for high-frequency rectification because of its short reverse recovery time (t_{rr})
- Low V_F (forward rise voltage), with high rectification efficiency

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

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V_R	30	V
Repetitive peak reverse voltage		V_{RRM}	30	V
Peak forward current	Single	I_{FM}	300	mA
	Double*2		200	
Average forward current	Single	$I_{F(AV)}$	100	mA
	Double*2		70	
Non-repetitive peak forward surge current*1		I_{FSM}	1	A
Junction temperature		T_j	125	$^\circ\text{C}$
Storage temperature		T_{stg}	-55 to +125	$^\circ\text{C}$

Note) *1 : The peak-to-peak value in one cycle of 50 Hz sine-wave (non-repetitive)

*2 : Value per chip

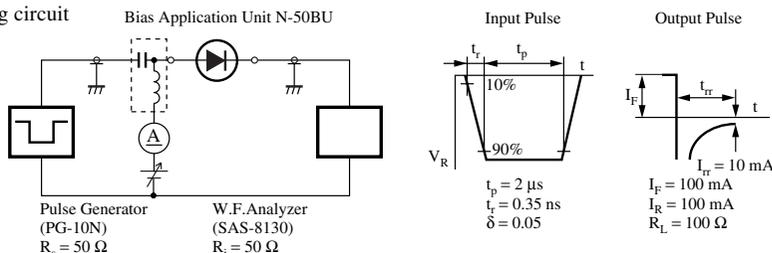
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

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

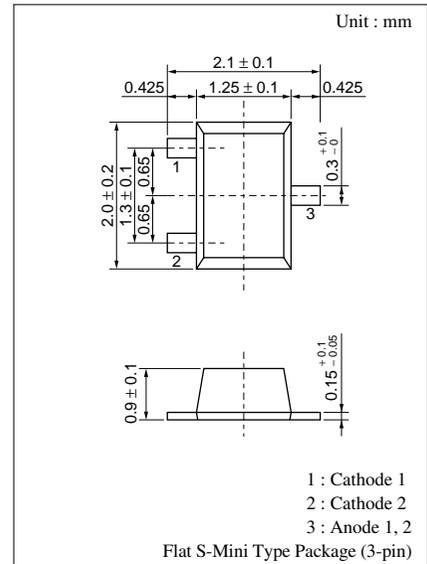
Note) 1. Schottky barrier diode is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

2. Rated input/output frequency: 250 MHz

3. * : t_{rr} measuring circuit

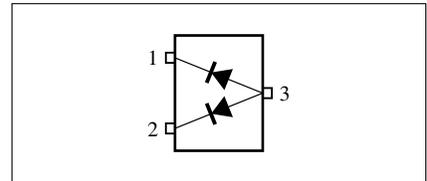


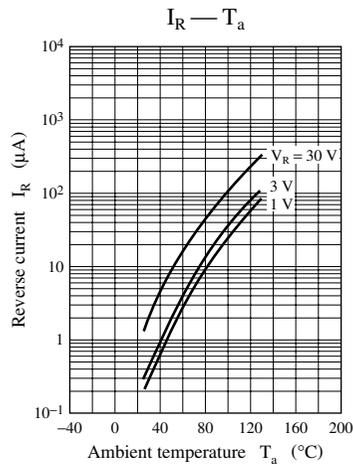
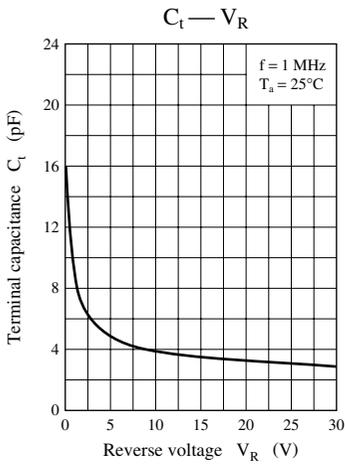
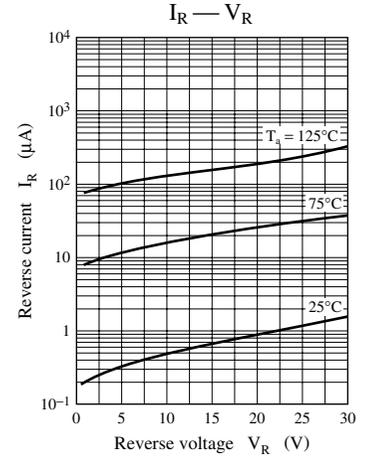
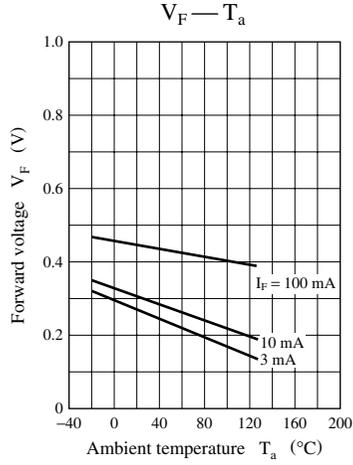
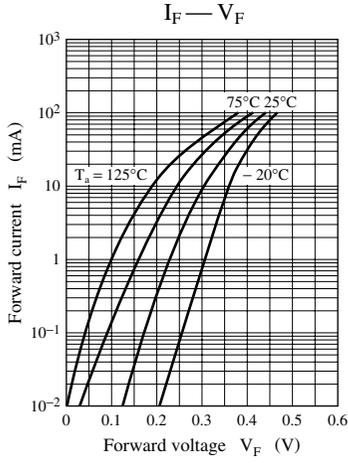
Note) The part number in the parenthesis shows conventional part number.



Marking Symbol: M3Y

Internal Connection





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