# MA4X193 (MA193)

### Silicon epitaxial planar type

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#### Features

- Mini type 4-pin package, contained four elements
- Short reverse recovery time t<sub>rr</sub>
- Bridge diodes for surface mounting
- Anode common + cathode common composite product

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Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V <sub>R</sub>	80	V
Repetitive peak reverse voltage	V <sub>RRM</sub>	80	V
Average forward current	I <sub>F(AV)</sub>	70	mA
Repetitive peak forward current	I <sub>FRM</sub>	150	mA
Non-repetitive peak forward surge current*	I <sub>FSM</sub>	250	mA
Junction temperature	Tj	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

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

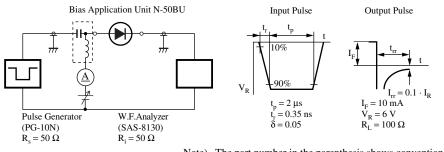
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Note)		ι=	1	s



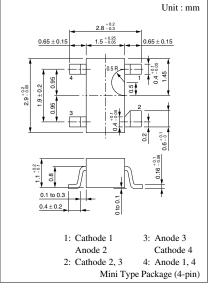
Parameter	Symbol	Conditions	Min	Тур	Max	Unit	
Reverse current (DC)	I <sub>R</sub>	V <sub>R</sub> = 75 V			100	nA	
Forward voltage (DC)	V <sub>F</sub>	I <sub>F</sub> = 70 mA			1.2	V	
Reverse voltage (DC)	V <sub>R</sub>	$I_{R} = 100 \ \mu A$	80			v	
Terminal capacitance	Ct	$V_{R} = 0 V, f = 1 MHz$			15	pF	
Reverse recovery time*	t <sub>rr</sub>	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			10	ns	
		$I_{rr} = 0.1 \cdot I_R, R_L = 100 \ \Omega$					

Note) 1. Rated input/output frequency: 100 MHz

2. \* : t<sub>rr</sub> measuring circuit

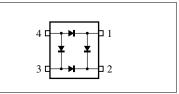


Note) The part number in the parenthesis shows conventional part number.

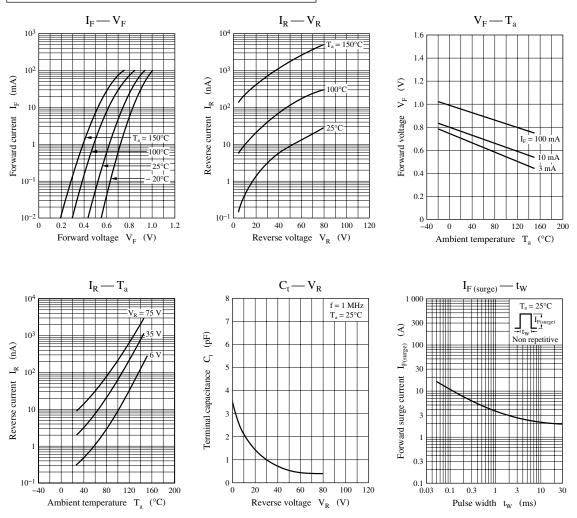


#### Marking Symbol: M2Z

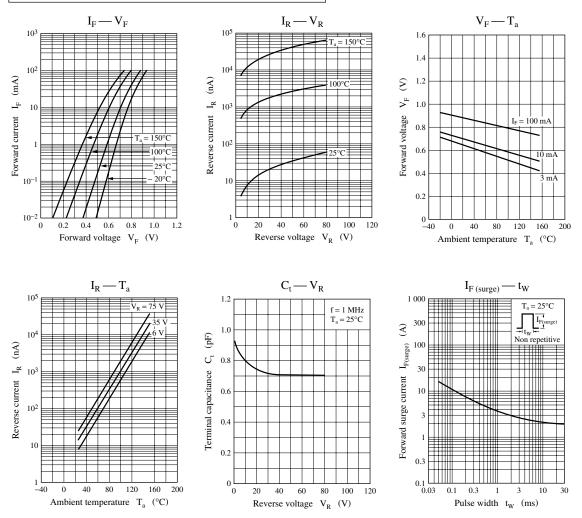
#### Internal Connection



#### 4-1 and 4-3 pins (anode common) characteristics charts



#### 1-2 and 3-2 pins (cathode common) characteristics charts



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