

MA193

Silicon epitaxial planer type

For switching circuits

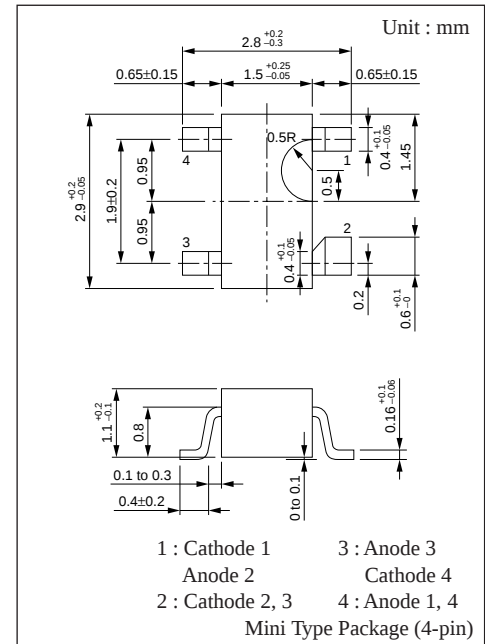
■ Features

- Mini type 4-pin package with four incorporated elements
- Short reverse recovery period t_{rr}
- Surface mounting bridge diode
- Anode common + cathode common composite product

■ Absolute Maximum Ratings (Ta= 25°C)

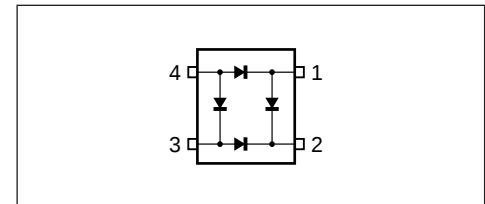
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	80	V
Repetitive peak reverse voltage	V_{RRM}	80	V
Average forward current	$I_F (AV)$	70	mA
Repetitive peak forward current	I_{FRM}	150	mA
Non-repetitive peak forward surge current	I_{FSM}^*	250	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	- 55 to +150	°C

* $t=1s$



Marking Symbol : M2Z

■ Internal Connection



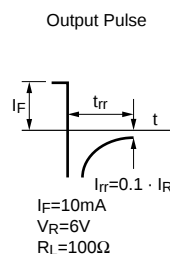
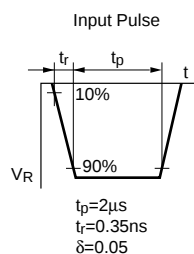
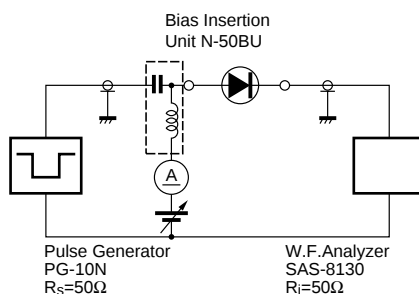
■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 75V$			100	nA
Forward voltage (DC)	V_F	$I_F = 70mA$			1.2	V
Reverse voltage (DC)	V_R	$I_R = 100\mu A$	80			V
Terminal capacitance	C_t	$V_R = 0V, f = 1MHz$			15	pF
Reverse recovery time	t_r^*	$I_F = 10mA, V_R = 6V$ $I_{rr} = 0.1 \cdot I_R, R_L = 100\Omega$			10	ns

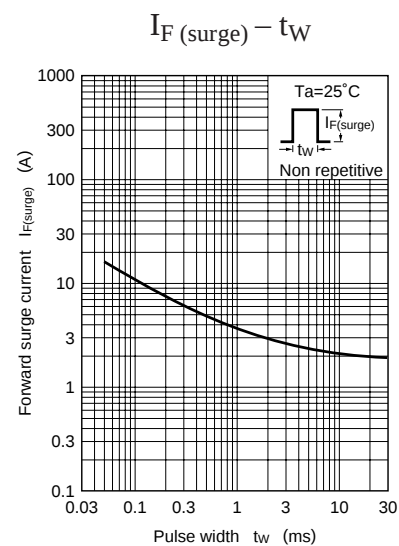
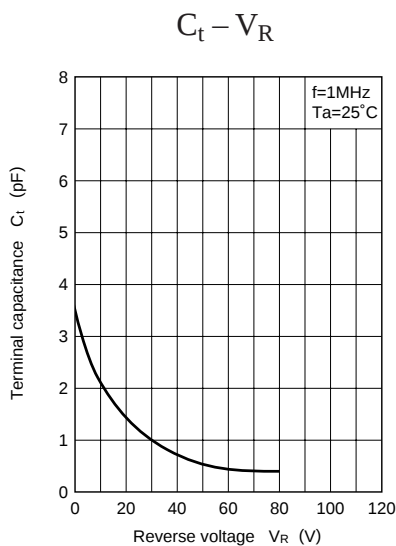
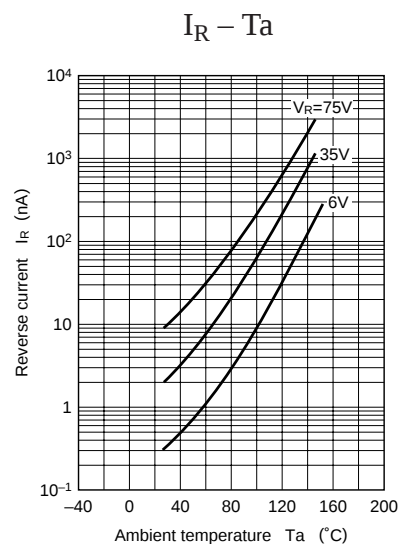
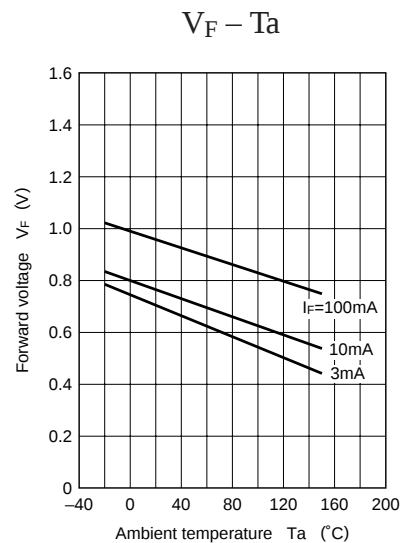
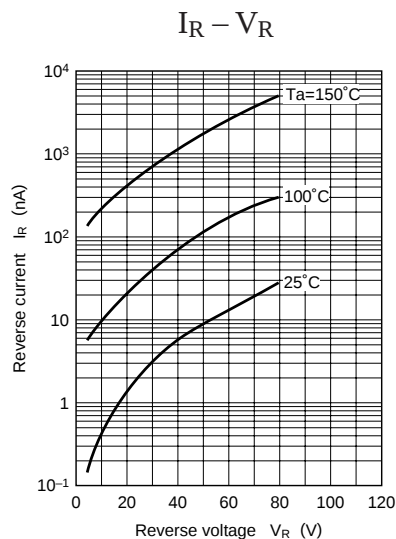
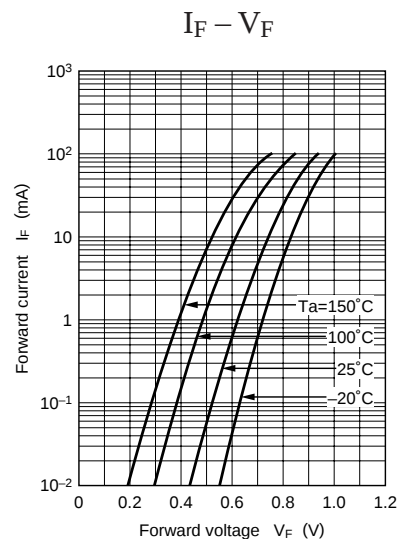
Note 1 : Rated input/output frequency : 100MHz

2 : * t_{rr} measuring circuit

■ Marking



4-1 and 4-3 pins (anode common characteristics chart)



1-2 and 3-2 pins (cathode common characteristics chart)

