

# MA4S159

Silicon epitaxial planer type

For switching circuits

## ■ Features

- Small S-Mini type 4-pin package
- ◆ Independent incorporating of two elements, enabling high-density mounting
- ◆ Flat lead type, with improved mounting efficiency and solderability in the high-speed mounting machine
- ◆ Short reverse recovery period  $t_{rr}$
- ◆ Small capacity between pins,  $C_t$

## ■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	80	V
Peak reverse voltage	$V_{RM}$	80	V
Average forward current	Single $I_{F(AV)}$	100	mA
	Double $I_{F(AV)}$	75	mA/Unit
Peak forward current	Single $I_{FM}$	225	mA
	Double $I_{FM}$	170	mA/Unit
Non-repetitive peak forward surge current	Single $I_{FSM}^*$	500	mA
	Double $I_{FSM}^*$	375	mA/Unit
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

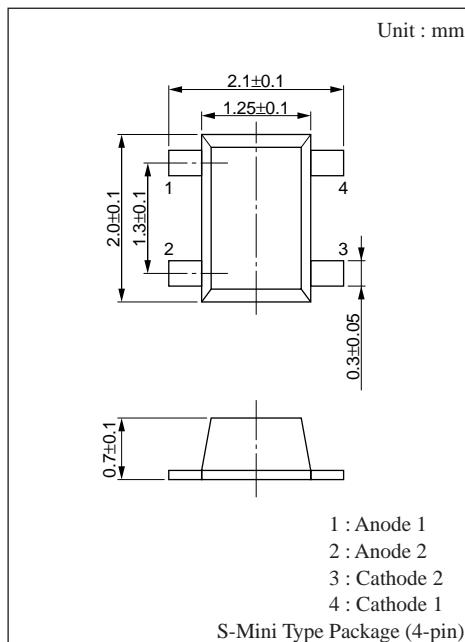
\*  $t=1s$

## ■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	$I_R$	$V_R=75V$			0.1	μA
Forward voltage (DC)	$V_F$	$I_F=100mA$		0.95	1.2	V
Reverse voltage (DC)	$V_R$	$I_R=100μA$	80			V
Terminal capacitance	$C_t$	$V_R=0V, f=1MHz$		0.9	2	pF
Reverse recovery time	$t_{rr}^*$	$I_F=10mA, V_R=6V$ $I_{rr}=0.1 \cdot I_R, R_L=100Ω$			3	ns

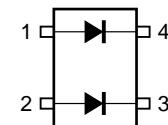
Note 1 : Rated input/output frequency : 100MHz

2 : \*  $t_{rr}$  measuring circuit



Marking Symbol : M1B

## ■ Internal Connection



## ■ Marking

