

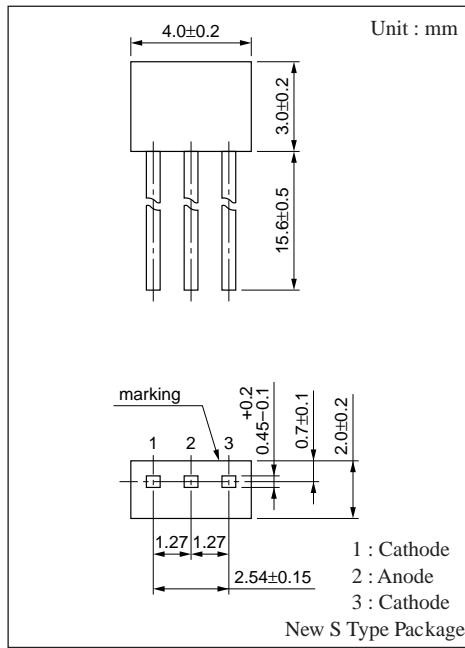
MA175WA, MA176WA

Silicon epitaxial planer type

For switching circuits

■ Features

- Short reverse recovery period t_{rr}
- Small capacity between pins, C_t

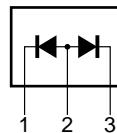


■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	40	V
		80	
Peak reverse voltage	V_{RM}	40	V
		80	
Forward current (DC)	I_F	100	mA
		150	
Peak forward current	I_{FM}	225	mA
		340	
Non-repetitive peak forward surge current	I_{FSM}^*	500	mA
		750	
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

* $t=1s$

■ Internal Connection



■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R= 35V$			0.1	μA
		$V_R= 75V$			0.1	
Forward voltage (DC)	V_F	$I_F=100mA$			1.2	V
Reverse voltage (DC)	V_R	$I_R=100\mu A$	40			V
			80			
Terminal capacitance	C_t	$V_R= 0V, f=1MHz$			4	pF
Reverse recovery time	t_{rr}^*	$I_F=10mA, V_R= 6V$ $I_{rr}= 0.1 \cdot I_R, R_L=100\Omega$			10	ns

Note 1 : Rated input/output frequency : 100MHz

2 : * t_{rr} measuring circuit

