

MA204WK, MA205WK

Silicon epitaxial planer type

For switching circuits

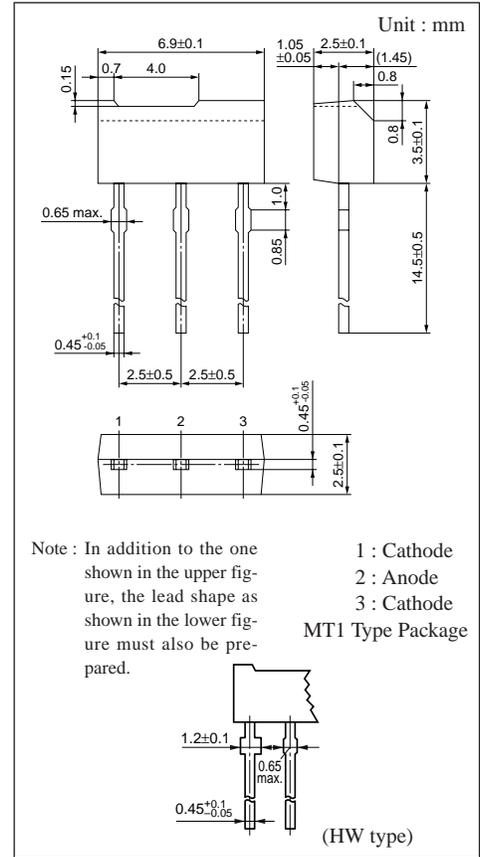
■ Features

- Short reverse recovery period t_{rr}
- Small capacity between pins, C_t
- Supply in radial taping manner possible

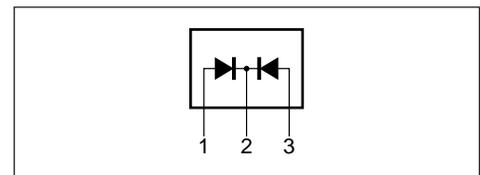
■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	MA204WK	40	V
	MA205WK	80	
Peak reverse voltage	MA204WK	40	V
	MA205WK	80	
Forward current (DC)	Single	100	mA
	Double	150	
Peak forward current	Single	225	mA
	Double	340	
Non-repetitive peak forward surge current	Single	500	mA
	Double	750	
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	- 55 to +150	°C

* $t=1s$



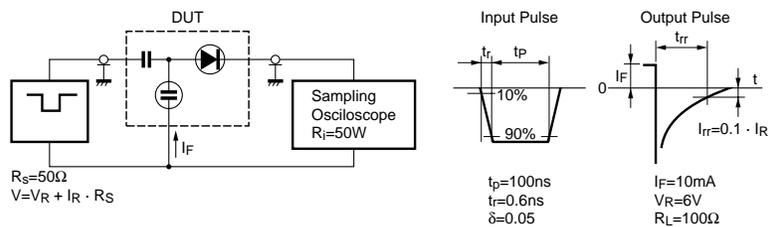
■ Internal Connection



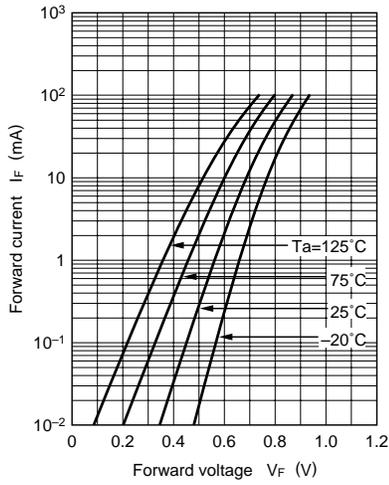
■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	MA204WK	$V_R = 35V$			0.1	μA
	MA205WK	$V_R = 75V$			0.1	
Forward voltage (DC)	V_F	$I_F = 100mA$			1.2	V
Reverse voltage (DC)	MA204WK	$I_R = 100\mu A$	40			V
	MA205WK		80			
Terminal capacitance	C_t	$V_R = 0V, f = 1MHz$			4	pF
Reverse recovery time	t_{rr}^*	$I_F = 10mA, V_R = 6V$ $I_{Tr} = 0.1 \cdot I_R, R_L = 100\Omega$			3	ns

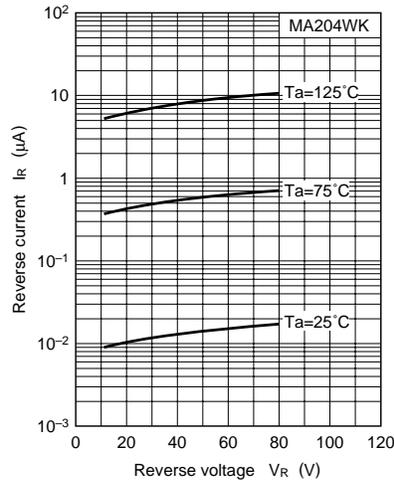
* t_{rr} measuring circuit



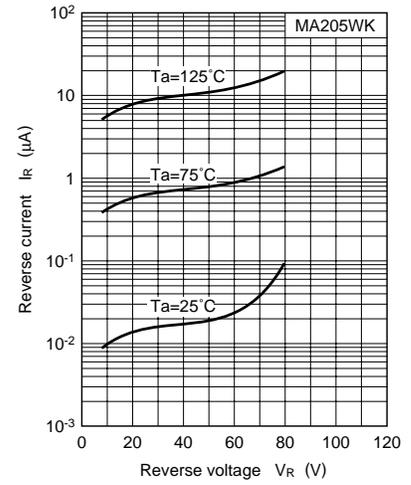
$I_F - V_F$



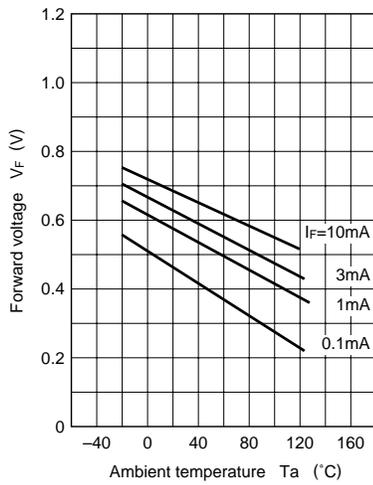
$I_R - V_R$



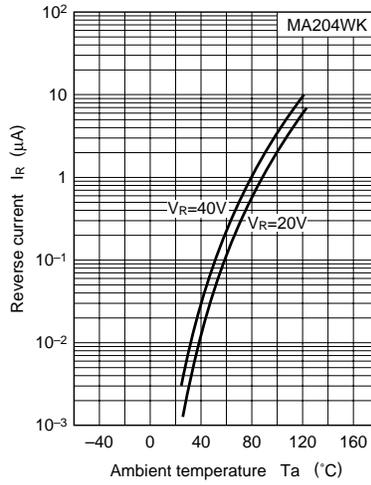
$I_R - V_R$



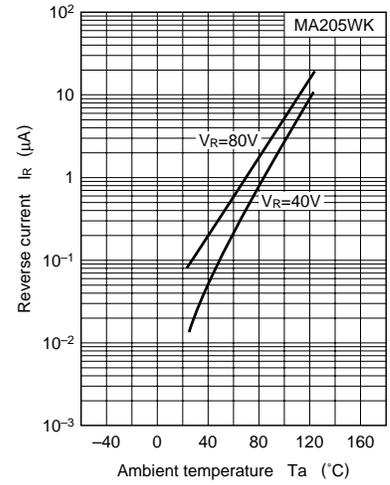
$V_F - T_a$



$I_R - T_a$



$I_R - T_a$



$C_t - V_R$

