

MA200WK

Silicon epitaxial planer type

For switching circuits

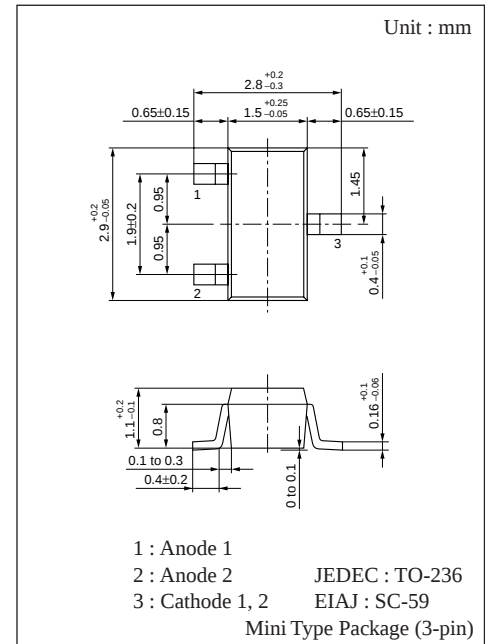
■ Features

- Small reverse current I_R , with extremely small leakage current
- t_{rr} of a soft recovery type

■ Absolute Maximum Ratings (Ta= 25°C)

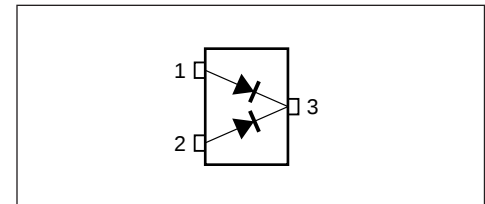
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	80	V
Peak reverse voltage	V_{RM}	80	V
Forward current (DC)	Single	100	mA
	Double	150	
Peak forward current	Single	225	mA
	Double	340	
Non-repetitive peak forward surge current	Single	500	mA
	Double	750	
Junction temperature	T_j	150	°C
Storage temperature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

* $t=1s$



Marking Symbol : M4D

■ Internal Connection



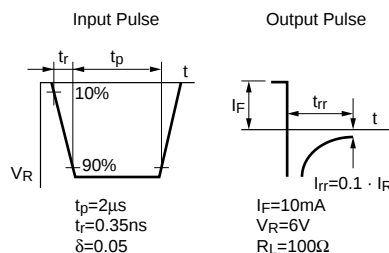
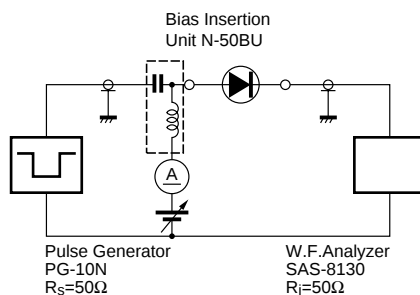
■ Electrical Characteristics (Ta= 25°C)

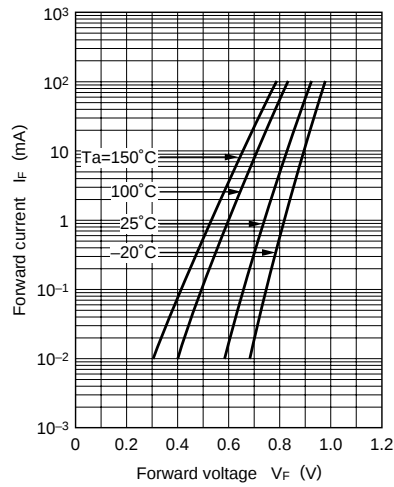
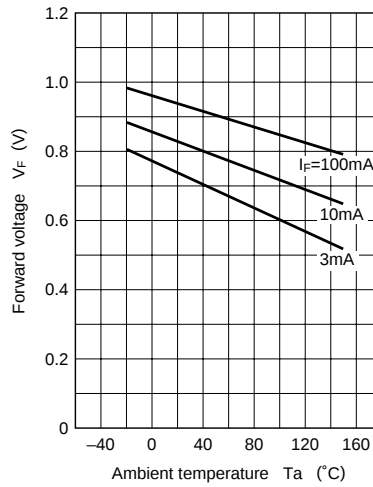
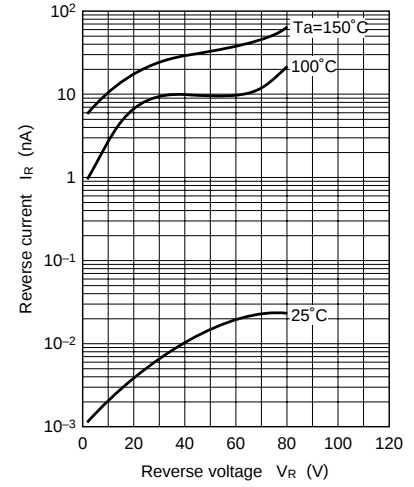
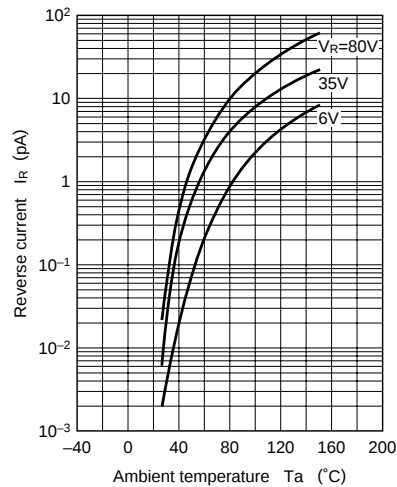
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_{R1}	$V_R=75V$			100	nA
	I_{R2}	$V_R=5V, T_a=85^\circ C$			20	nA
Forward voltage (DC)	V_F	$I_F=100mA$			1.2	V
Reverse voltage (DC)	V_R	$I_R=100\mu A$	80			V
Terminal capacitance	C_t	$V_R=0V, f=1MHz$			2.5	pF
Reverse recovery time	t_{rr} *	$I_F=10mA, V_R=6V$ $I_{rr}=0.1 \cdot I_R, R_L=100\Omega$			100	ns

Note 1 : Rated input/output frequency : 100MHz

2 : * t_{rr} measuring circuit

■ Marking



$I_F - V_F$  $V_F - T_a$  $I_R - V_R$  $I_R - T_a$  $C_t - V_R$ 