

MA199

Silicon epitaxial planer type

For high voltage resistance switching circuit

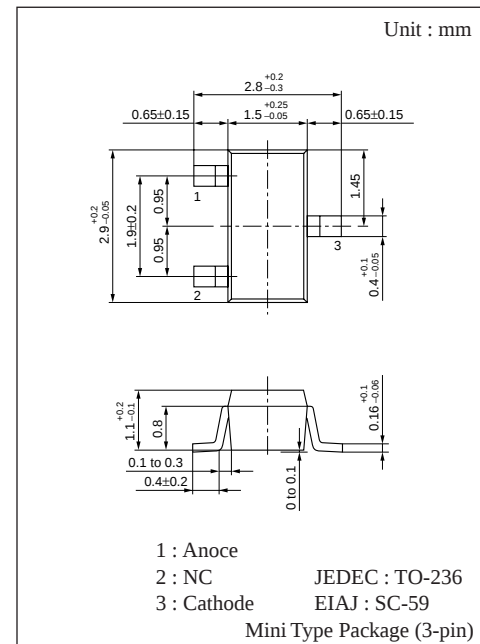
■ Features

- High voltage resistance at $V_R = 200V$
- Short reverse recovery period t_{rr}
- Small package and automatic mounting

■ Absolute Maximum Ratings ($T_a = 25^\circ C$)

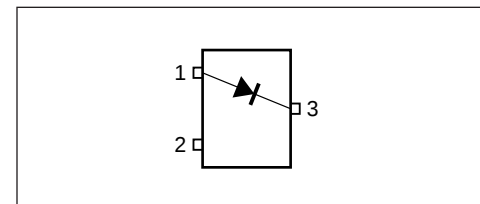
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	200	V
Repetitive peak reverse voltage	V_{RRM}	250	V
Average forward current	$I_F (AV)$	100	mA
Repetitive peak forward current	I_{FRM}	225	mA
Non-repetitive peak forward surge current	I_{FSM}^*	500	mA
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	- 55 to +150	$^\circ C$

* $t = 1s$



Marking Symbol : M3A

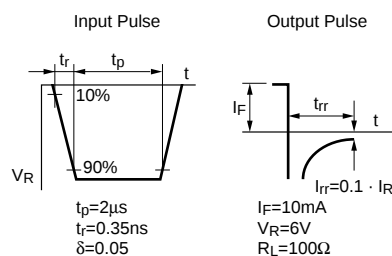
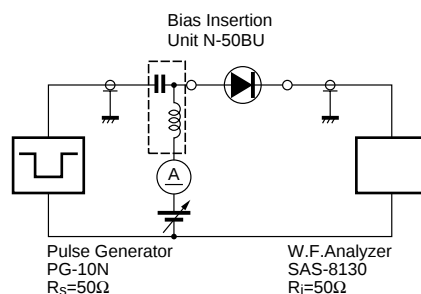
■ Internal Connection



■ Electrical Characteristics ($T_a = 25^\circ C$)

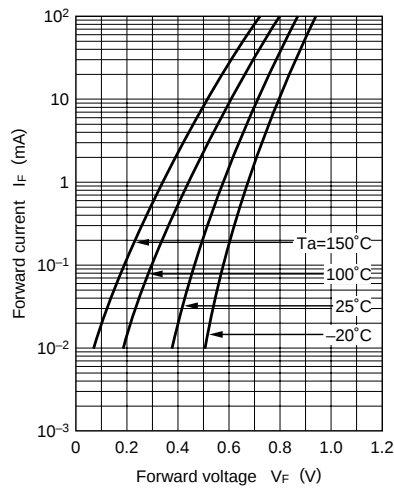
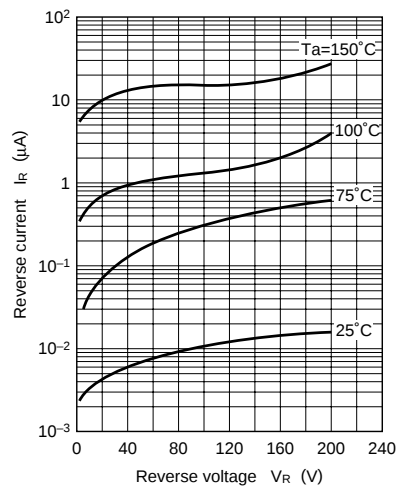
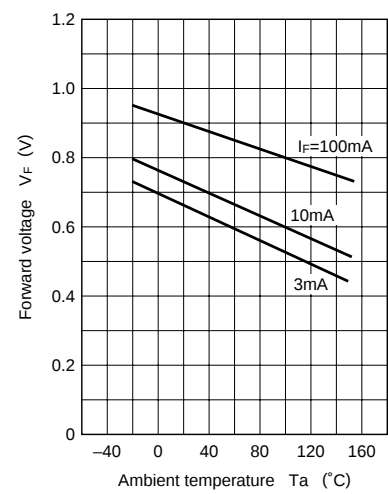
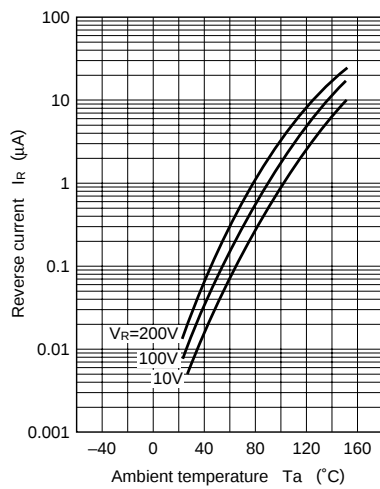
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 200V$			1	μA
Forward voltage (DC)	V_F	$I_F = 100mA$			1.2	V
Terminal capacitance	C_t	$V_R = 0V, f = 1MHz$			3	pF
Reverse recovery time	t_{rr}^*	$I_F = I_R = 10mA$ $I_{rr} = 1mA, R_L = 100\Omega$			60	ns

Note 1 : Rated input/output frequency : 20MHz
2 : * t_{rr} measuring circuit



■ Marking



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