

MA727

Silicon epitaxial planer type

For super high-speed switching circuit

For small current rectification

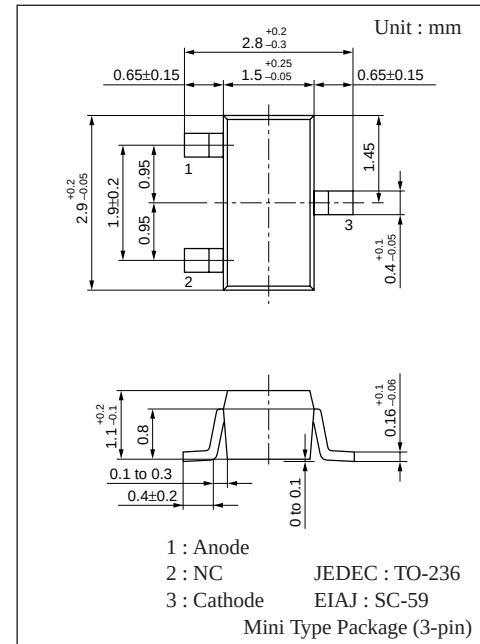
■ Features

- Sealed in the Mini type mold. High voltage withstand type ($V_R = 50V$)
- $I_{F(AV)} = 200mA$ rectification possible
- Superior in reliability

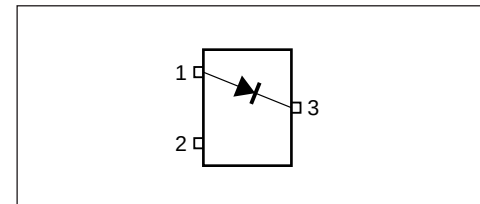
■ Absolute Maximum Ratings ($T_a = 25^\circ C$)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	50	V
Repetitive peak reverse voltage	V_{RRM}	50	V
Peak forward current	I_{FM}	300	mA
Average forward current	$I_{F(AV)}$	200	mA
Non-repetitive peak forward surge current	I_{FSM}^*	1	A
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	- 55 to + 150	$^\circ C$

* 50Hz sine wave, one-cycle wave, high value (non-repetitive)



■ Internal Connection



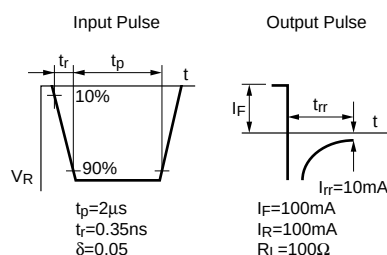
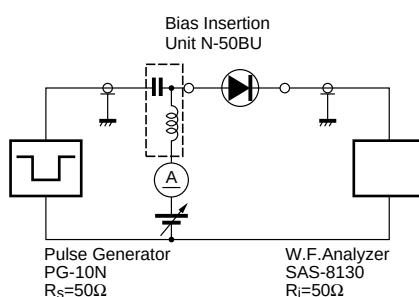
■ Electrical Characteristics ($T_a = 25^\circ C$)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 50V$			200	μA
Forward voltage (DC)	V_{F1}	$I_F = 30mA$			0.36	V
	V_{F2}	$I_F = 200mA$			0.55	V
Terminal capacitance	C_t	$V_R = 0V, f = 1MHz$		30		pF
Reverse recovery time	t_{rr}^*	$I_F = I_R = 10mA$ $I_R = 10mA, R_L = 100\Omega$		3.0		ns

Note 1. Schottky barrier diode is sensitive to electric shock (static electricity, etc.). Due attention must be paid on charge of a human body and leakage from the equipment used.

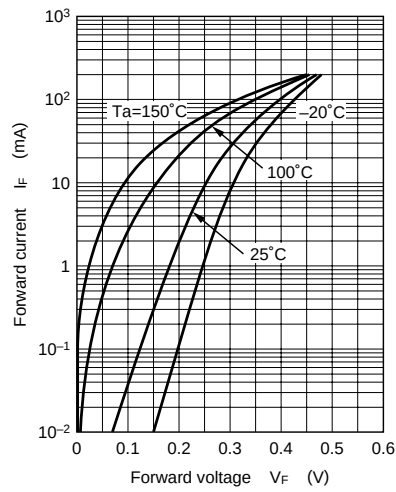
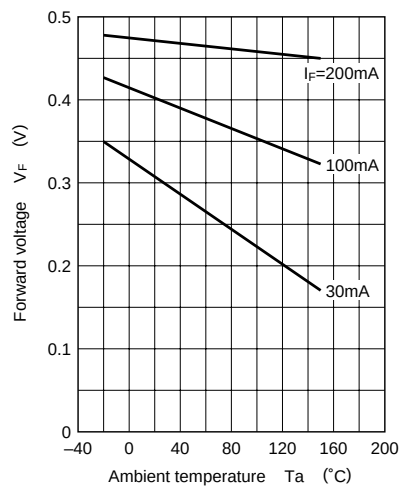
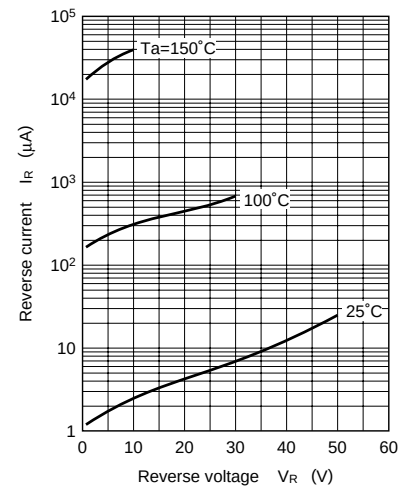
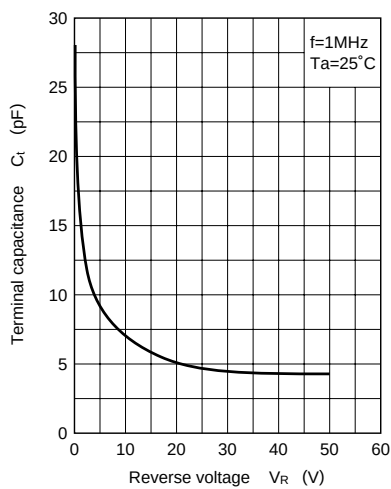
2. Rated input/output frequency : 1000MHz

3. * t_{rr} measuring circuit



■ Marking



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