

MA133

Silicon epitaxial planer type

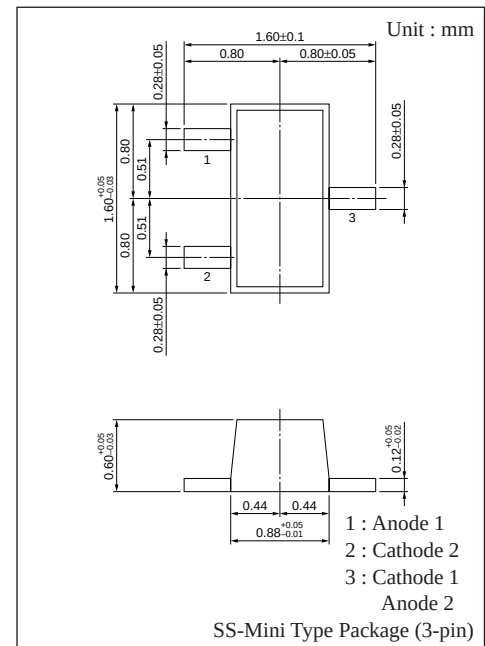
For switching circuits

■ Features

- Extra-small SS-Mini type package with two incorporated elements, enabling high-density mounting
- Series connection in package

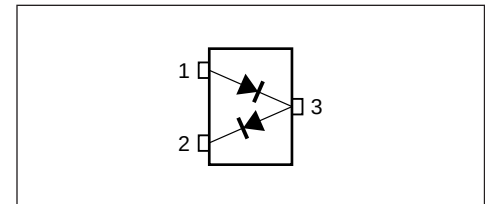
■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	80	V
Peak reverse voltage	V_{RM}	80	V
Forward current (DC)	Single	100	mA
	Series	65	
Peak forward current	Single	200	mA
	Series	130	
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	- 55 to +150	°C



Marking Symbol : MP

■ Internal Connection



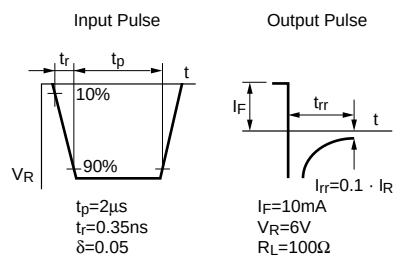
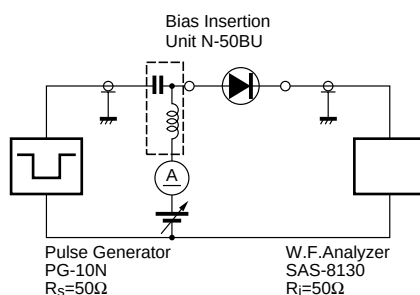
■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 75V$			100	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_{t1}	$V_R = 0V, f = 1MHz$			5.5	pF
	C_{t2}	$V_R = 0V, f = 1MHz$			3.0	pF
Reverse recovery time	$t_{rr1}^{*1, 3}$	$I_F = 10mA, V_R = 6V$ $I_{rr} = 0.1 \cdot I_R, R_L = 100\Omega$		150		ns
	$t_{rr2}^{*2, 3}$	$I_F = 10mA, V_R = 6V$ $I_{rr} = 0.1 \cdot I_R, R_L = 100\Omega$		9		ns

Note 1 : Rated input/output frequency : 100MHz

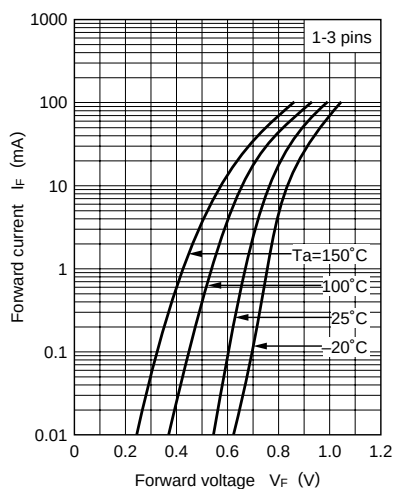
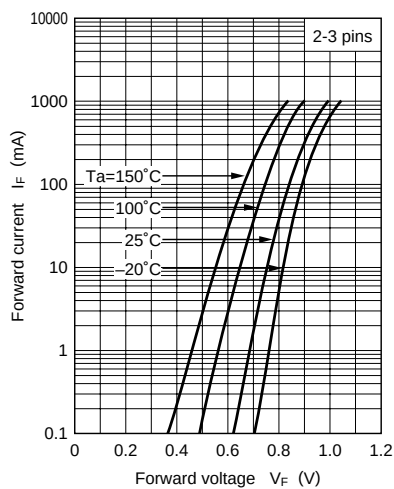
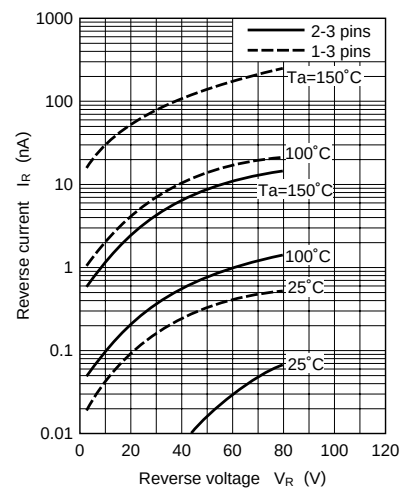
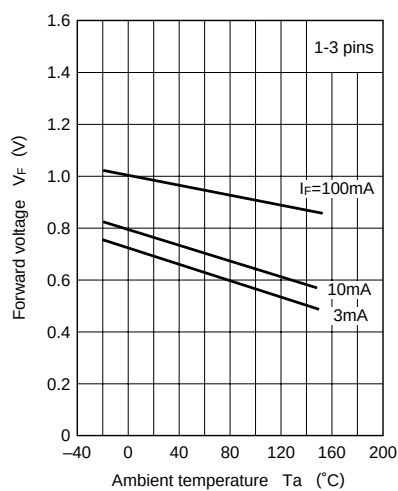
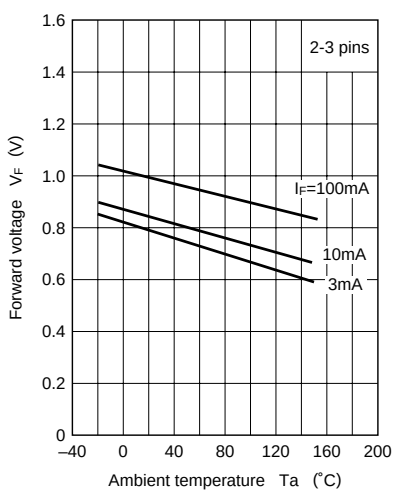
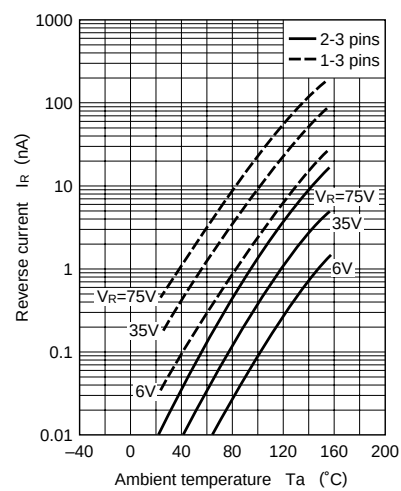
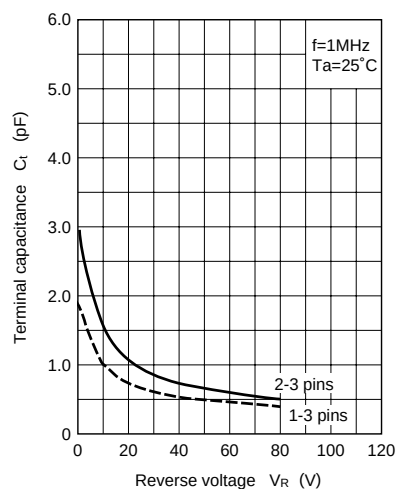
2 : *1 Between pins 2 and 3 *2 Between pins 1 and 3

*3 t_{rr} measuring circuit



■ Marking



$I_F - V_F$  $I_F - V_F$  $I_R - V_R$  $V_F - T_a$  $V_F - T_a$  $I_R - T_a$  $C_t - V_R$  $I_F(\text{surge}) - t_W$ 