

MA3SD05

Silicon epitaxial planar type

For high frequency rectification

■ Features

- Series connection
- High-density mounting is possible
- SS-Mini type 3-pin package

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	45	V
Peak reverse voltage	V_{RM}	45	V
Forward current (DC)	Single	I_F	100
	Series		75
Peak forward current	Single	I_{FM}	300
	Series		225
Non-repetitive peak forward-surge-current *	Single	I_{FSM}	1
	Series		0.75
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

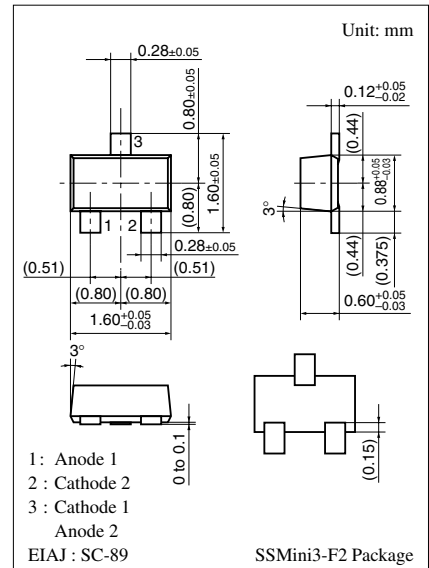
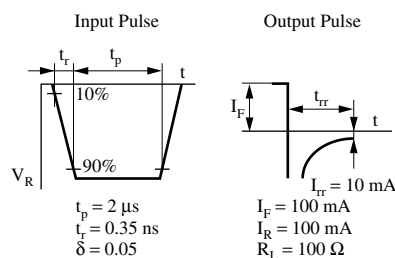
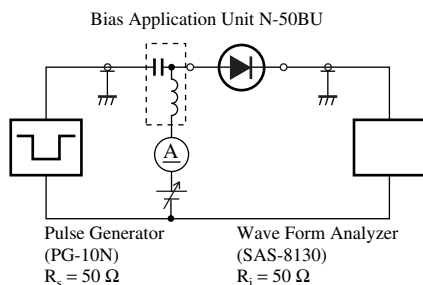
Note) *: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 40\text{ V}$			5	μA
Forward voltage (DC)	V_F	$I_F = 100\text{ mA}$		0.54	0.60	V
Terminal capacitance	C_t	$V_R = 0\text{ V}, f = 1\text{ MHz}$		12	18	pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100\text{ mA}$ $I_{rr} = 10\text{ mA}, R_L = 100\ \Omega$		2.0		ns

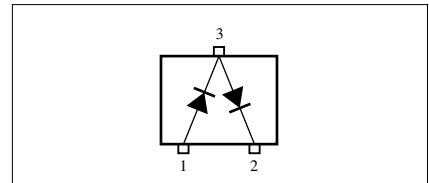
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

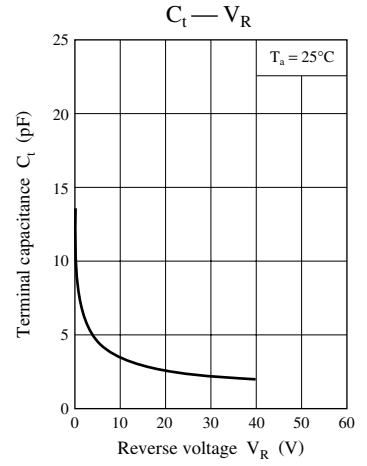
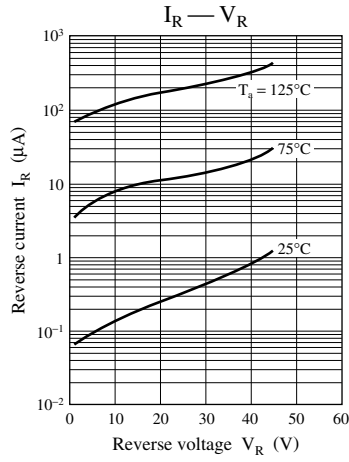
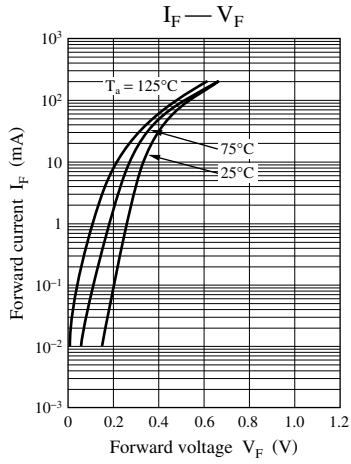
2. Rated input/output frequency: 250 MHz
3. *: t_{rr} measuring instrument



Marking Symbol: M5C

Internal Connection





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