

# MA3XD17

## Silicon epitaxial planar type

For high frequency rectification

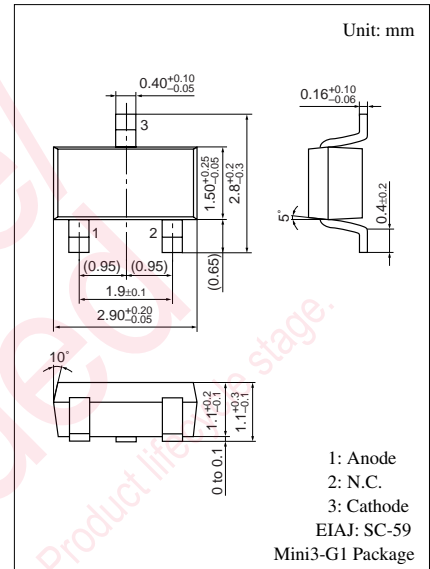
### ■ Features

- $V_R = 100\text{ V}$  is guaranteed
- Mini type 3-pin package

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

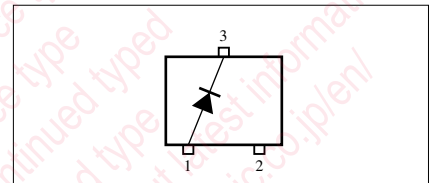
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	100	V
Peak reverse voltage	$V_{RM}$	100	V
Non-repetitive peak forward-surge-current *	$I_{FSM}$	1.5	A
Average forward current	$I_{F(AV)}$	300	mA
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

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



Marking Symbol: M5K

### Internal Connection

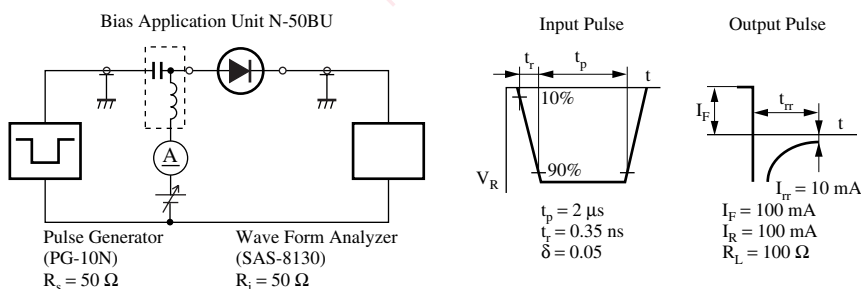


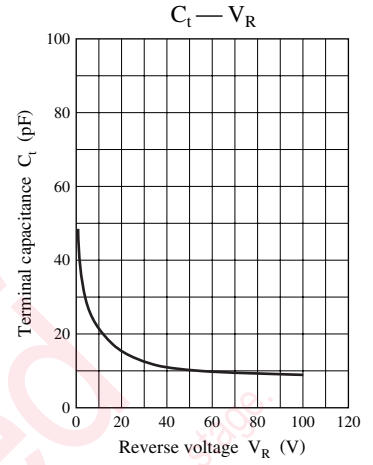
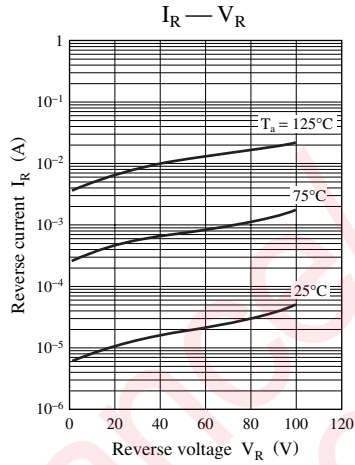
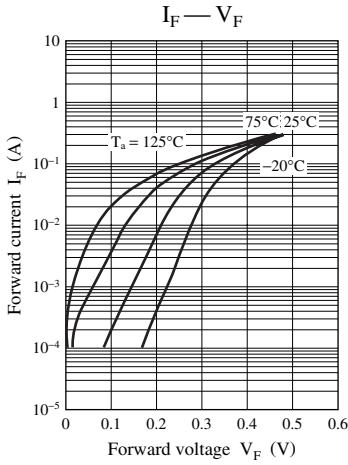
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 100\text{ V}$			200	$\mu\text{A}$
Forward voltage (DC)	$V_F$	$I_F = 300\text{ mA}$		0.50	0.58	V
Terminal capacitance	$C_t$	$V_R = 0\text{ V}, f = 1\text{ MHz}$		100		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 100\text{ mA}$ $I_{rr} = 10\text{ mA}, R_L = 100\ \Omega$		7		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





Maintenance/Discontinued includes following four Product lifecycle types:  
planned maintenance type  
maintenance type  
planned discontinued type  
discontinued type  
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