

# MA2YD21

## Silicon epitaxial planar type

For high frequency rectification

### ■ Features

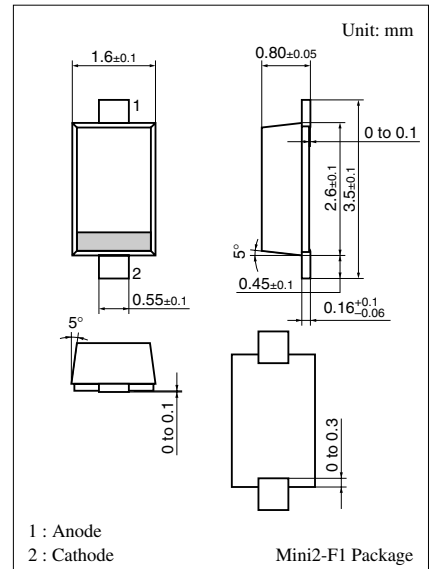
- $I_{F(AV)} = 1$  A rectification is possible
- Low forward voltage:  $V_F < 0.4$  V (at  $I_F = 1$  A)
- Mini type 2-pin package

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	15	V
Repetitive peak reverse-voltage	$V_{RRM}$	15	V
Average forward current *1	$I_{F(AV)}$	1	A
Non-repetitive peak forward-surge-current *2	$I_{FSM}$	3	A
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

Note) \*1: Mounted on a alumina PC board

\*2: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)



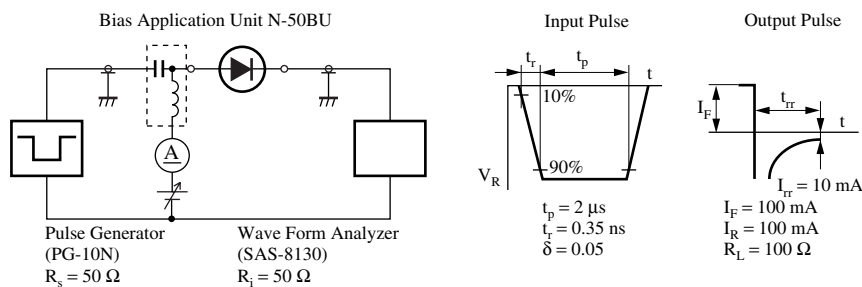
Marking Symbol: 2X

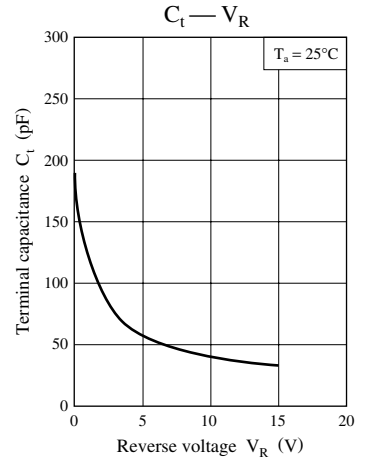
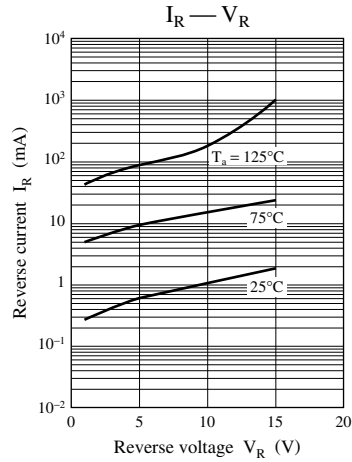
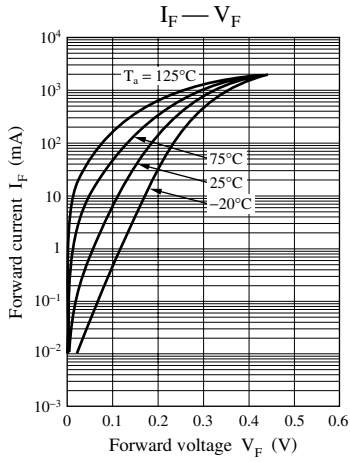
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 6$ V			1.5	mA
Forward voltage (DC)	$V_F$	$I_F = 1$ A			0.4	V
Terminal capacitance	$C_t$	$V_R = 0$ V, $f = 1$ MHz		180		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 100$ mA $I_{rr} = 10$ mA, $R_L = 100 \Omega$		12		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. \*:  $t_{rr}$  measuring instrument





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