

MA2QD01

Silicon epitaxial planar type

For high frequency rectification

■ Features

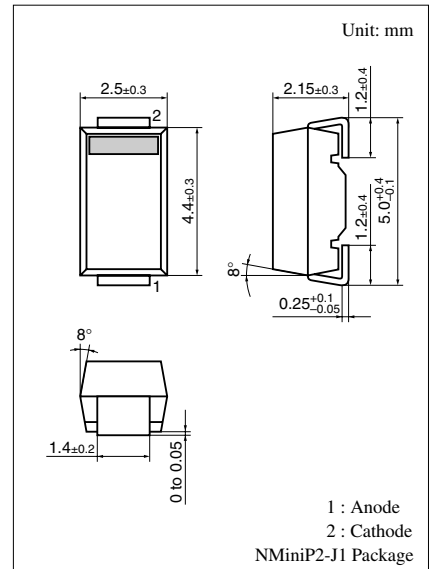
- $I_{F(AV)} = 1.5$ A rectification is possible
- $V_R = 60$ V is guaranteed
- New Mini-power 2-pin package

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	60	V
Peak reverse voltage	V_{RM}	60	V
Average forward current *1	$I_{F(AV)}$	1.5	A
Non-repetitive peak forward-surge-current *2	I_{FSM}	60	A
Junction temperature	T_j	-40 to +125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

Note) *1: With a printed circuit board (copper foil area $2.5\text{ mm} \times 2.5\text{ mm}$ + $0.8\text{ mm} \times 20\text{ mm}$ or more on both cathode and anode sides)

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



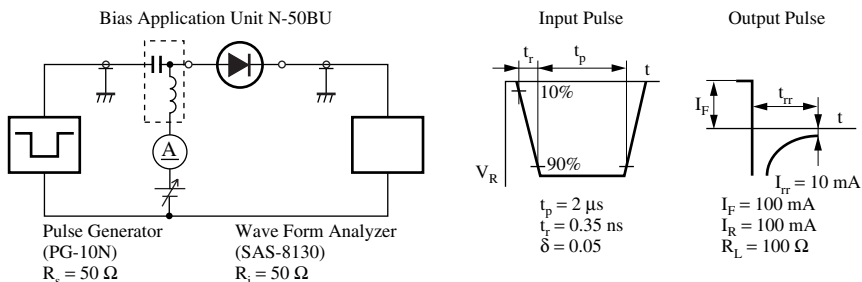
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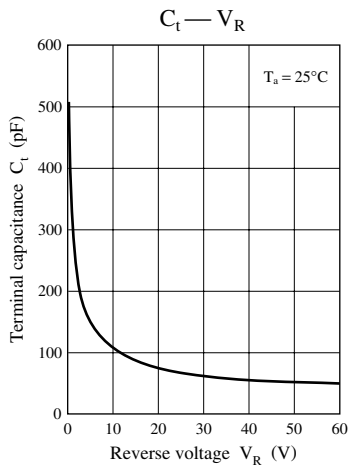
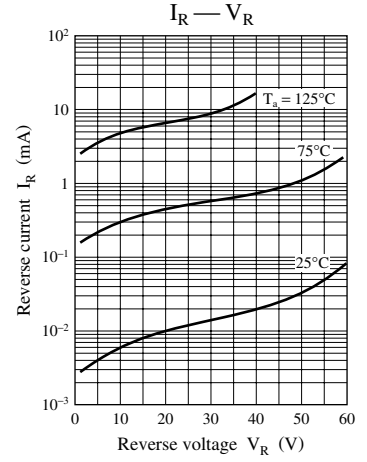
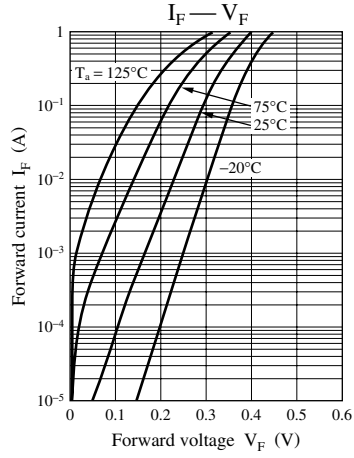
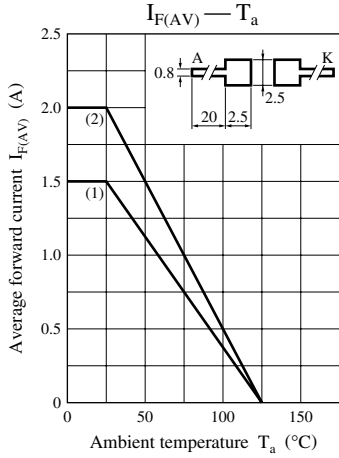
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 60$ V			1	mA
Forward voltage (DC)	V_F	$I_F = 1.5$ A			0.55	V
Terminal capacitance	C_t	$V_R = 10$ V, $f = 1$ MHz		110		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA $I_{rr} = 10$ mA, $R_L = 100$ Ω			100	ns

Note) 1. Rated input/output frequency: 20 MHz

2. *: t_{rr} measuring instrument





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