

MA22D23

Silicon epitaxial planar type

For high frequency rectification

■ Features

- $I_{F(AV)} = 1$ A rectification is possible.
- High I_{FSM} ($I_{FSM} = 30$ A)
- Small reverse current I_R .

■ Package

- Code
Mini2-F1
- Pin Name
1: Anode
2: Cathode

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	25	V
Repetitive peak reverse voltage	V_{RRM}	25	V
Forward current (Average) *1	$I_{F(AV)}$	1.0	A
Non-repetitive peak forward surge current *2	I_{FSM}	30	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

■ Marking Symbol: 3W

Note) *1: Mounted on a alumina PC board

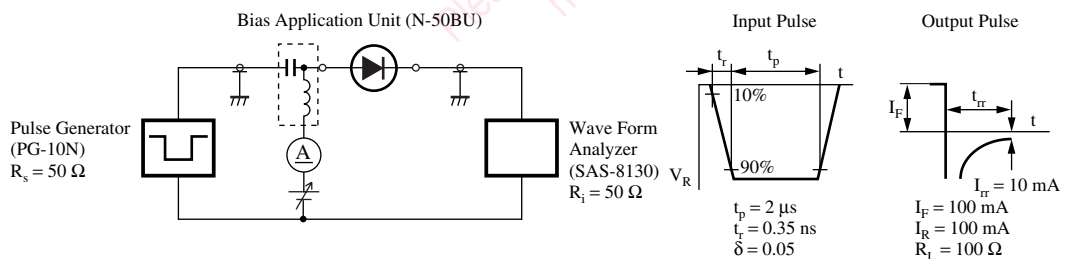
*2: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

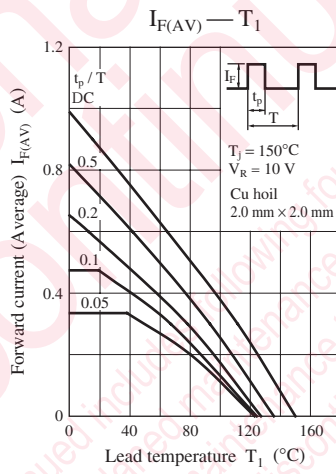
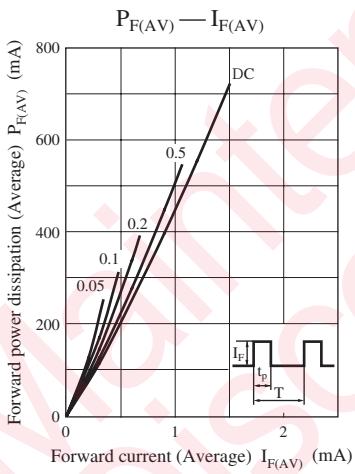
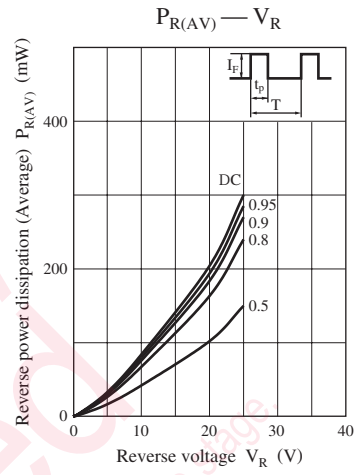
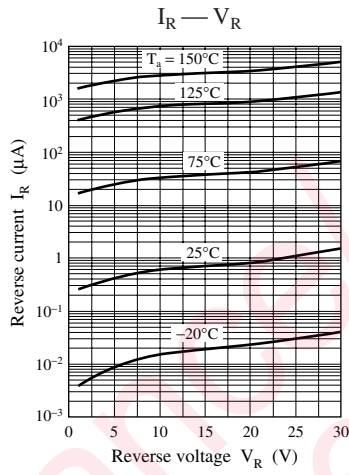
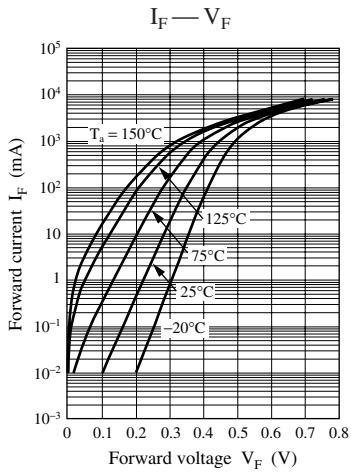
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current	I_{R1}	$V_R = 15$ V		1.5	20	μA
	I_{R2}	$V_R = 20$ V		2.5	40	
Forward voltage	V_{F1}	$I_F = 0.5$ A		0.41	0.46	V
	V_{F2}	$I_F = 1.0$ A		0.44	0.53	
Terminal capacitance	C_t	$V_R = 10$ V, $f = 1$ MHz		45		pF

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

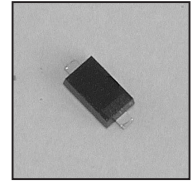
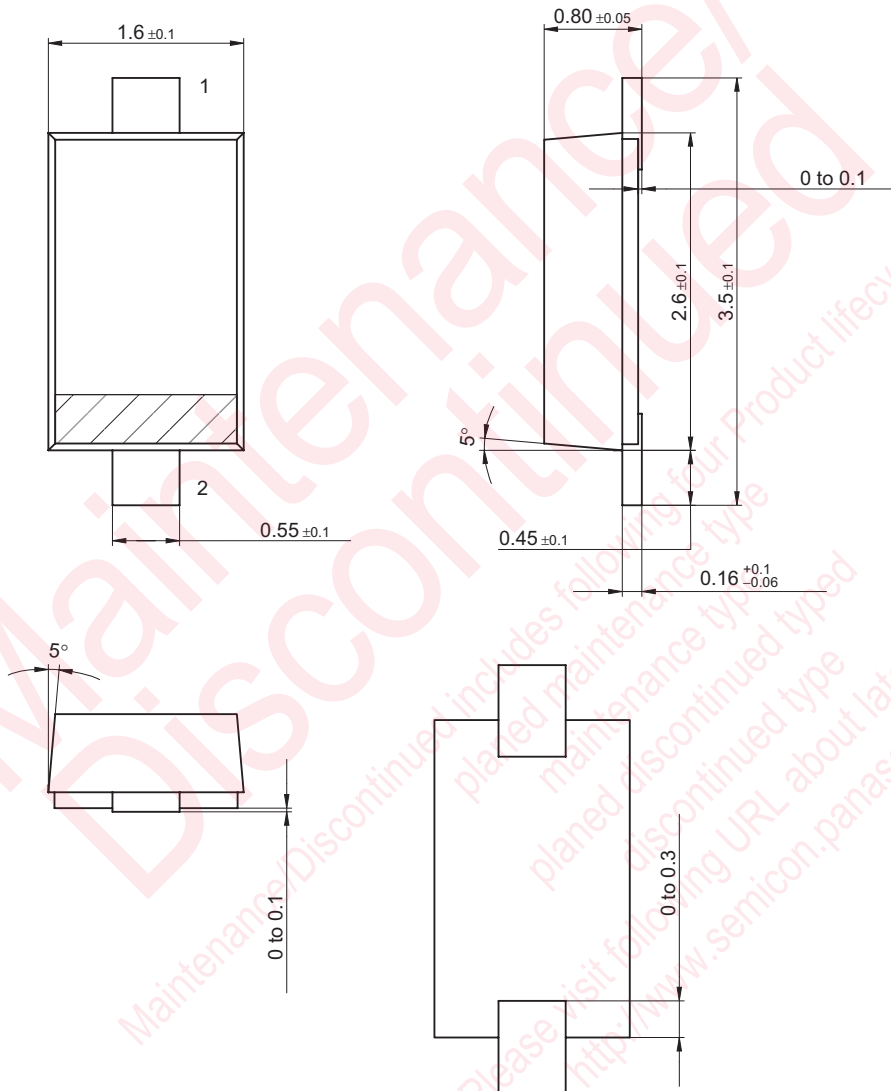
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.





Mini2-F1

Unit: mm



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