# MA22D15

### Silicon epitaxial planar type

For high frequency rectification

#### Features

•  $I_{F(AV)} = 1$  A rectification is possible

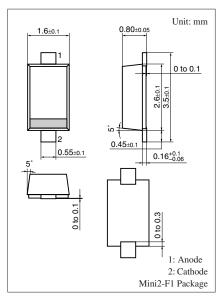
Note) \*1: Mounted on a alumina PC board

- Low forward voltage V<sub>F</sub>
- Low reverse current I<sub>R</sub>

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	20	V
Repetitive peak reverse voltage	V <sub>RRM</sub>	25	V
Forward current (Average) *1	I <sub>F(AV)</sub>	1.0	А
Non-repetitive peak forward surge current *2	I <sub>FSM</sub>	20	А
Junction temperature	Tj	150	°C
Storage temperature	T <sub>stg</sub>	-55 to + 150	°C

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



Marking Symbol: 3R

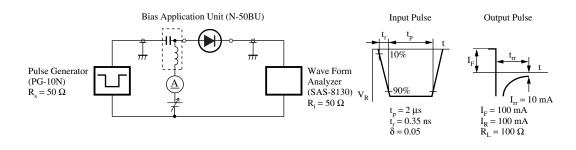
	a					
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 1.0 \text{ mA}$		0.40	0.43	V
Reverse current	I <sub>R</sub>	$V_R = 20 V$			100	μΑ
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		30		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 100 \text{ mA}$		10		ns
		$I_{\rm rr} = 10 \text{ mA}$ , $R_{\rm L} = 100 \Omega$				

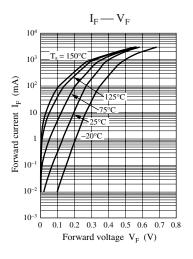
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

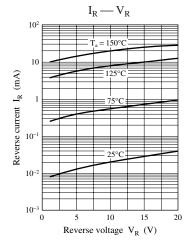
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

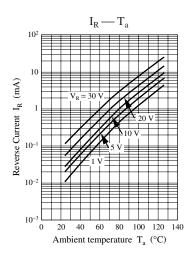
This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

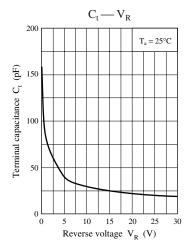
3. \*: t<sub>rr</sub> measuring instrument











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