MA2YD33

Silicon epitaxial planar type

For high frequency rectification

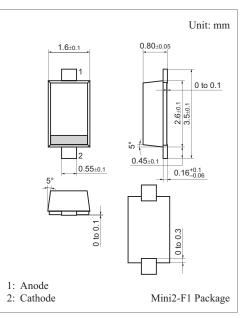
Features

- Forward current (Average) $I_{F(AV)} = 500 \text{ mA}$ rectification is possible
- Small reverse current I_R

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

Symbol	Rating	Unit	
V _R	30	V	
V _{RRM}	30	V	
I _{F(AV)}	500	mA	
I _{FSM}	3	А	
Tj	125	°C	
T _{stg}	-55 to +125	°C	
	V _R V _{RRM} I _{F(AV)} I _{FSM} T _j	$\begin{tabular}{ c c c c c } \hline V_R & 30 \\ \hline V_{RRM} & 30 \\ \hline I_{F(AV)} & 500 \\ \hline I_{FSM} & 3 \\ \hline T_j & 125 \\ \hline \end{tabular}$	

Note) *: 50 Hz sine wave 1 cycle (Non-repetitive peak current)



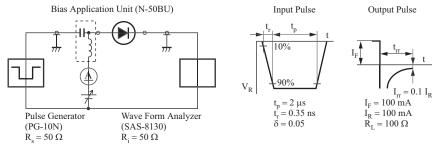
Marking Symbol: 2V

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 10 \text{ mA}$		0.3	0.4	V
	V_{F2}	$I_F = 500 \text{ mA}$		0.5	0.55	v
Reverse current	I _R	$V_{R'} = 30 V$			50	μΑ
Terminal capacitance	Ct	$V_{RJ} = 0 V, f = 1 MHz$		60		pF
Reverse recovery time *	t _{rr}	$I_{\rm F} = I_{\rm Rl} = 100 \text{ mA}, I_{\rm rr} = 0.1 \text{ I}_{\rm R}$ $R_{\rm LJ} = 100 \Omega$		5		ns

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.
- 3. *: t_{rr} measurement circuit



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