MA21D38

Silicon epitaxial planar type

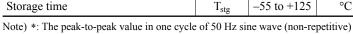
For high frequency rectification

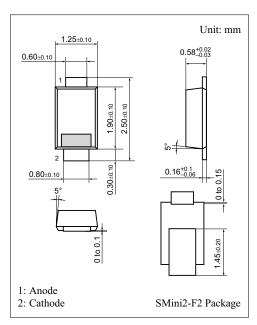
■ Features

- $I_{F(AV)} = 1$ A rectification is possible
- Low forward voltag V_F
- High non-repetitive peak forward surge voltage

■ Absolute Maximum Ratings $T_a = 25$ °C

<u> </u>							
Symbol	Rating	Unit					
V _R	30	V					
V _{RM}	30	V					
I _{F(AV)}	1.0	A					
I _{FSM}	20	A					
T _j	125	°C					
T _{stg}	-55 to +125	°C					
	$\begin{array}{c} V_R \\ V_{RM} \\ I_{F(AV)} \\ \end{array}$ $\begin{array}{c} I_{FSM} \\ \end{array}$	$\begin{array}{c cccc} V_R & 30 & & \\ V_{RM} & 30 & & \\ I_{F(AV)} & 1.0 & & \\ I_{FSM} & 20 & & \\ T_j & 125 & & \\ \end{array}$					



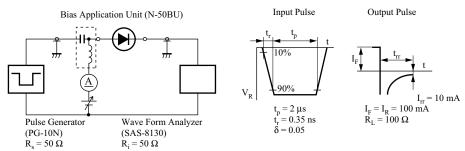


Marking Symbol: 3U

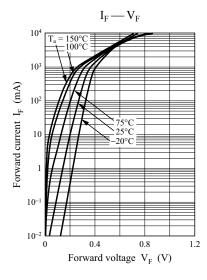
■ Electrical Characteristics $T_a = 25$ °C±3°C

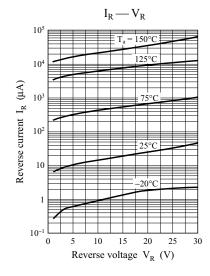
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_{\rm F} = 0.5 \text{ A}$		0.34	0.38	V
	V _{F2}	$I_F = 0.7 A$		0.36	0.40	
	V _{F3}	$I_{\rm F} = 1.0 \text{ A}$		0.38	0.42	
Reverse current	I _R	$V_R = 30 \text{ V}$			100	μΑ
Terminal capacitance	C _t	$V_R = 10 \text{ V, } f = 1 \text{ MHz}$		40		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA},$ $R_L = 100 \Omega$		13		ns

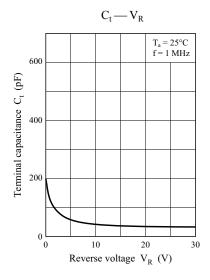
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. *: t_{rr} measurement circuit

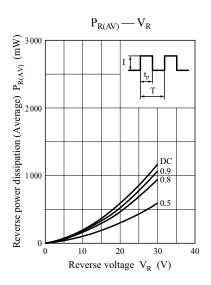


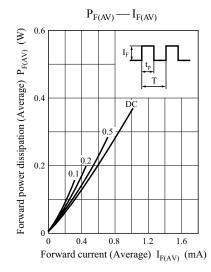
MA21D38 Panasonic

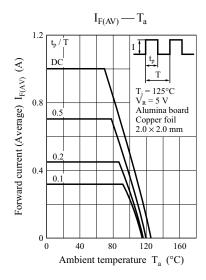


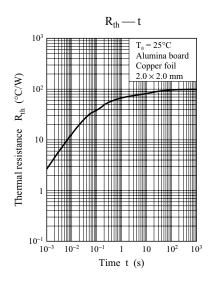












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