MA22D39

Silicon epitaxial planar type

For high speed switching circuits

■ Features

- ullet Optimum for forward current (Effective value) $I_{F(RMS)} = 1.57$ A rectification
- \bullet Reverse voltage $V_R = 40 \text{ V}$ is guaranteed

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	V_R	40	V	
Maximum peak reverse voltage	V _{RM}	40	V	
Forward current (Effective value) *1	I _{F(RMS)}	1.57	A	
Non-repetitive peak forward surge current *2	I _{FSM}	30	A	
Junction temperature	T_{j}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

Note) *1: Mounted on an alumina PC board

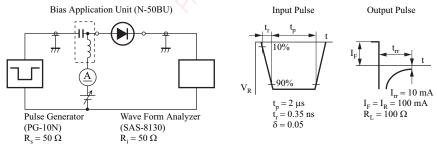
■ Package

- Code
- Mini2-F1
- Pin Name
 - 1: Anode
 - 2: Cathode
- Marking Symbol: 3N

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

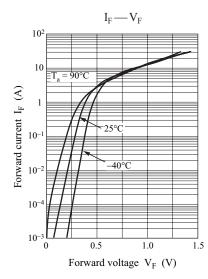
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage V_{F1} V_{F2} V_{F3}	V_{F1}	$I_{\rm F} = 0.5 {\rm A}$			0.48	V
	V_{F2}	$I_{\rm F} = 1.1 {\rm A}$	1/1/0		0.54	
	V_{F3}	I _F = 1.5 A	5),	0.57	
Reverse current	I_R	$V_R = 40 \text{ V}$	Silve		100	μΑ
Terminal capacitance	C_{t}	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		50		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA},$ $R_L = 100 \Omega$		30		ns

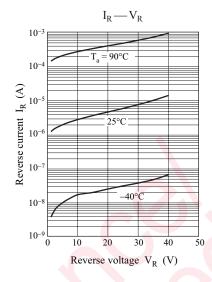
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.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

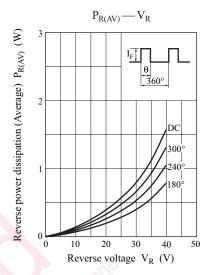


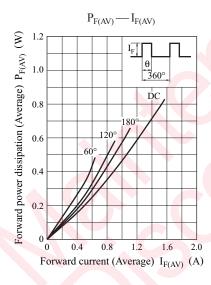
^{*2: 50} Hz sine wave 1 cycle (Non-repetitive peak current)

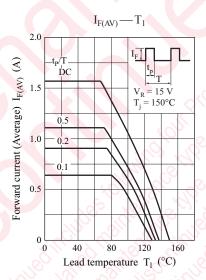
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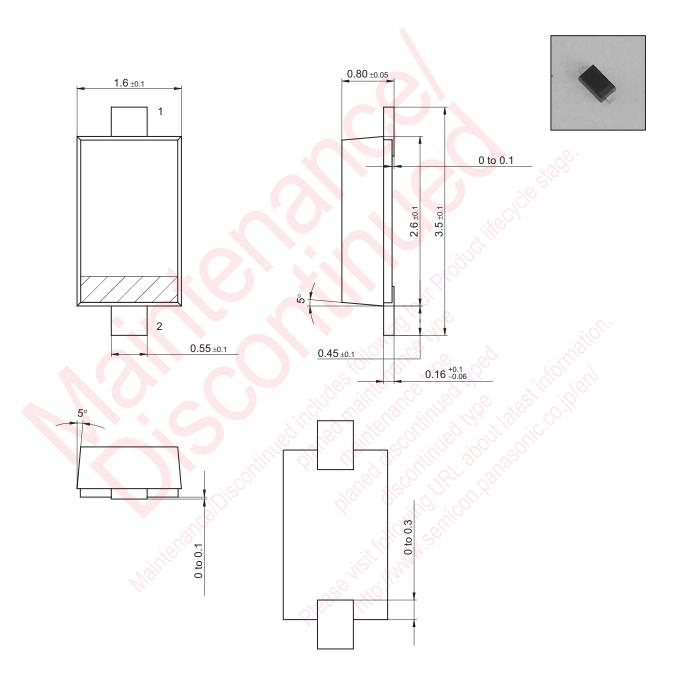




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Mini2-F1 Unit: mm



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