## **MA24D50**

## Silicon epitaxial planar type

#### For rectification

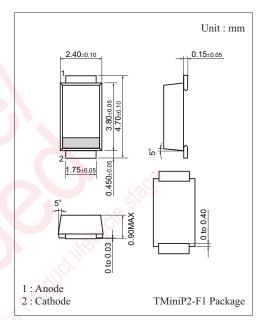
#### ■ Features

- Forward current (Average)  $I_{F(AV)} = 3.0 \text{ A}$  rectification is possible
- Low forward voltage V<sub>F</sub>

### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	$V_R$	40	V	
Maximum peak reverse voltage	V <sub>RM</sub>	40	V	
Forward current (Average) *1	I <sub>F(AV)</sub>	3.0	A	
Non-repetitive peak forward surge current *2	I <sub>FSM</sub>	60	A	
Junction temperature	$T_{j}$	150	°C	
Storage temperature	T <sub>stg</sub>	-40 to +150	°C	

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

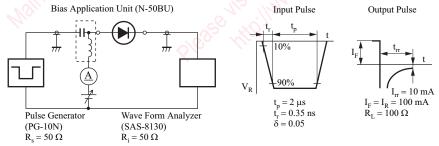


Marking Symbol: 5R

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_{\rm F} = 3.0  {\rm A}$	6 V	0.46	0.51	V
Reverse current	$I_R$	$V_R = 40 \text{ V}$		40	200	μА
Terminal capacitance	$C_{t}$	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		105		pF
Reverse recovery time *	t <sub>rr</sub>	$ I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA},$ $ R_L = 100 \Omega$	1911.0	33		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<sub>rr</sub> measurement circuit



<sup>\*2: 50</sup> Hz sine wave 1 cycle (Non-repetitive peak current)

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