## **MA27784**

### Silicon epitaxial planar type

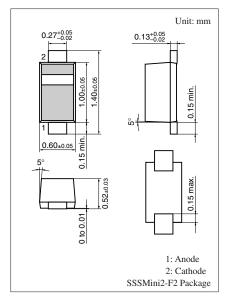
For high-speed switching circuits

#### ■ Features

- High-density mounting is possible
- Low forward voltage V<sub>F</sub> and good rectification efficiency
- Optimum for high frequency rectification because of its short reverse recovery time t<sub>rr</sub>

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

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	30	V
Repectitive peak reverse voltage	V <sub>RRM</sub>	30	V
Forward current (Average)	I <sub>F(AV)</sub>	100	mA
Peak forward current	$I_{FM}$	300	mA
Non-repetitive peak forward	$I_{FSM}$	1	A
surge current			
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C



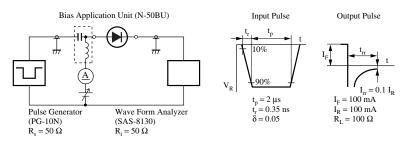
Marking Symbol: P

#### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

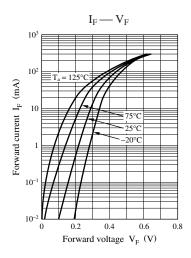
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	$I_R$	$V_R = 30 \text{ V}$			15	μΑ
Terminal capacitance	C <sub>t</sub>	$V_R = 0 V, f = 1 MHz$		20		pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = I_R = 10 \text{ mA}$		2.0		ns
		$I_{rr} = 0.1 I_R$ , $R_L = 100 \Omega$				

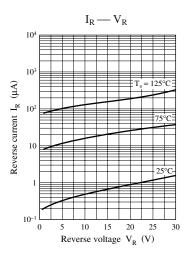
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

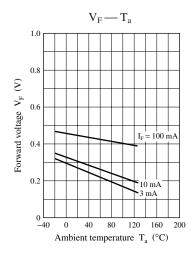
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 MHz
- 4. \*: t<sub>rr</sub> measurement circuit

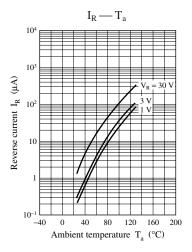


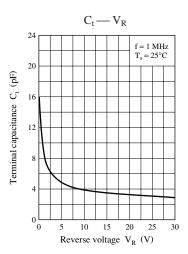
## **Panasonic**











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