MA27784

Silicon epitaxial planar type

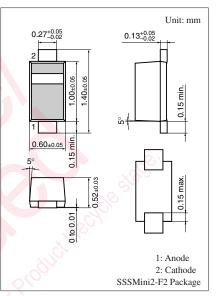
For high-speed switching circuits

Features

- High-density mounting is possible
- Low forward voltage V_F and good rectification efficiency
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}

Absolute Maximum Ratings $T_a = 25^{\circ}C$						
Parameter	Symbol	Rating	Unit			
Reverse voltage	V _R	30	V			
Repectitive peak reverse voltage	V _{RRM}	30	V			
Forward current (Average)	I _{F(AV)}	100	mA			
Peak forward current	I _{FM}	300	mA			
Non-repetitive peak forward surge current	I _{FSM}	1	A			
Junction temperature	Tj	125	°C			
Storage temperature	T _{stg}	-55 to +125	°C			





Marking Symbol: P

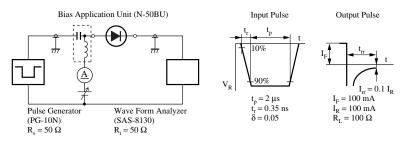
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_{\rm F} = 100 \text{ mA}$, de	0-	0.55	V
Reverse current	S ^C I _R	$V_R = 30 V$	2.0		15	μΑ
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		20		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$		2.0		ns
		I_{rr} = 0.1 I_R , R_L = 100 Ω				

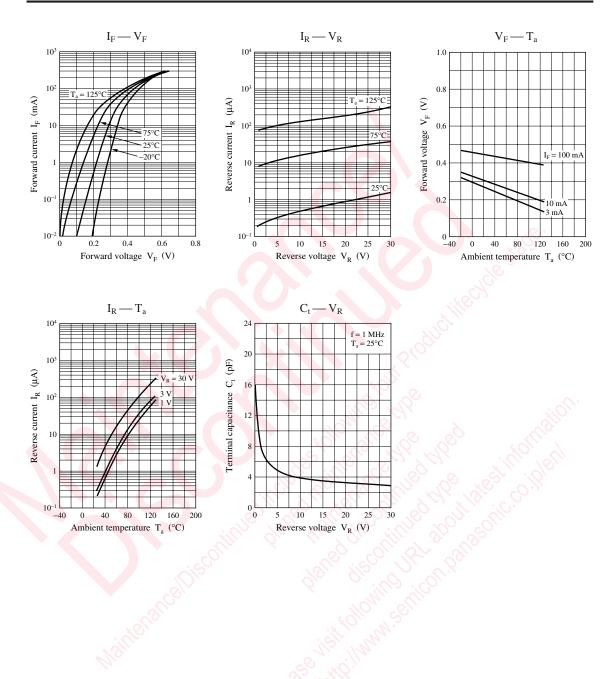
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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_{rr} measurement circuit



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