

MA27784

Silicon epitaxial planar type

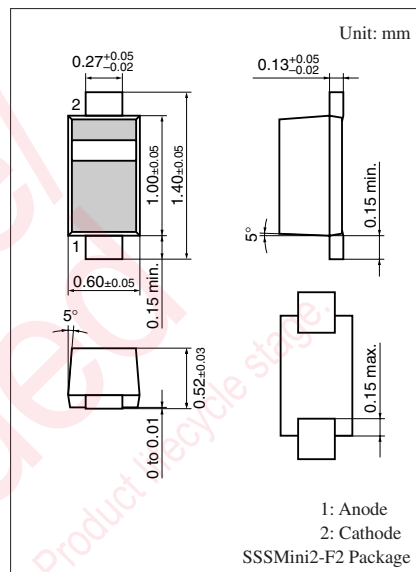
For high-speed switching circuits

■ 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 $T_a = 25^\circ\text{C}$

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	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$



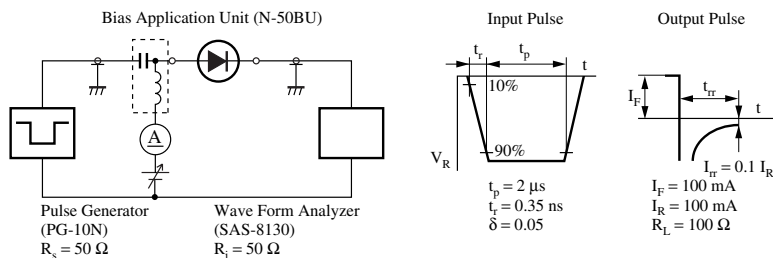
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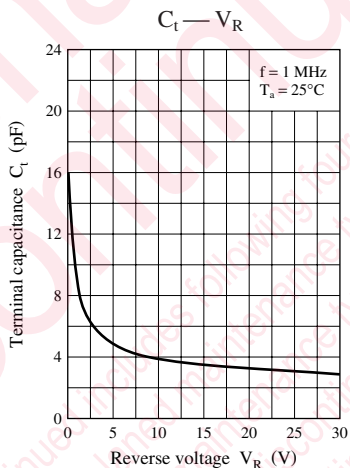
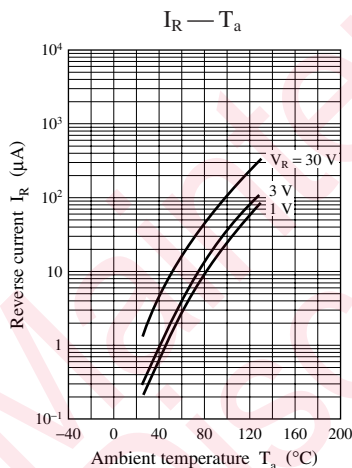
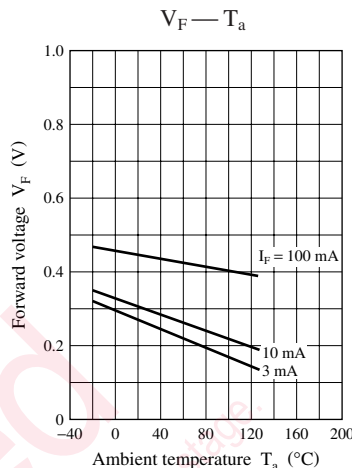
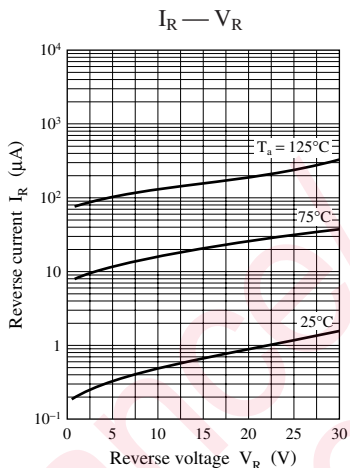
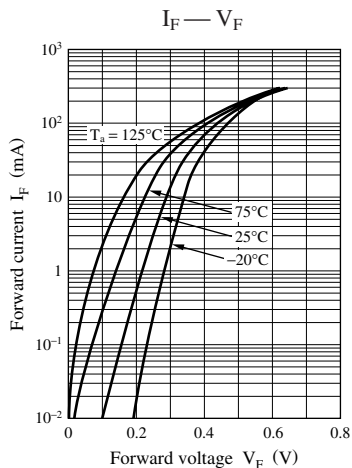
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 100 \text{ mA}$			0.55	V
Reverse current	I_R	$V_R = 30 \text{ V}$			15	μA
Terminal capacitance	C_t	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		20		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 10 \text{ mA}$ $I_{tr} = 0.1 I_R, R_L = 100 \Omega$		2.0		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. Absolute frequency of input and output is 250 MHz
4. *: t_{rr} measurement circuit





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standard applications or general electronic equipment (such as office
and household appliances).

ng applications:

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reliability are required, or if the failure or malfunction of the prod-

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use of the products, therefore, ask for the most up-to-date Product
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