

# MA27D27

## Silicon epitaxial planar type

For super high speed switching

### ■ Features

- Small reverse current  $I_R$
- Optimum for high frequency rectification because of its short reverse recovery time  $t_{rr}$
- SSS-Mini type 2-pin package

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	20	V
Repetitive peak reverse voltage	$V_{RRM}$	20	V
Forward current (Average)	$I_{F(AV)}$	100	mA
Peak forward current	$I_{FM}$	200	mA
Non-repetitive peak forward surge current *	$I_{FSM}$	1	A
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

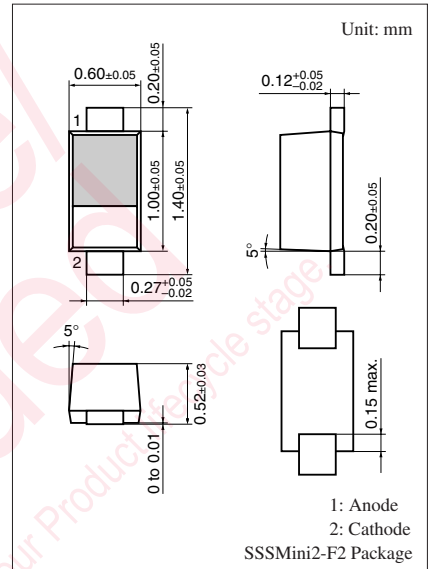
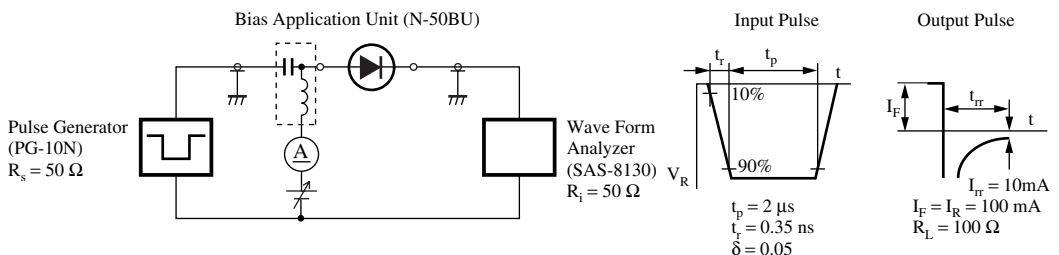
Note) \*: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

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

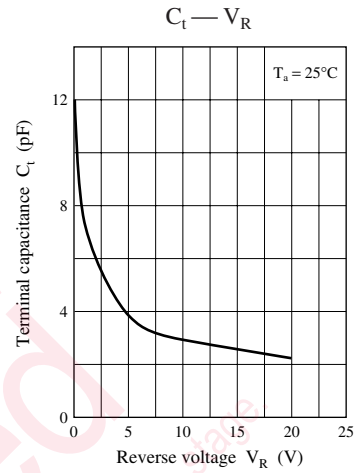
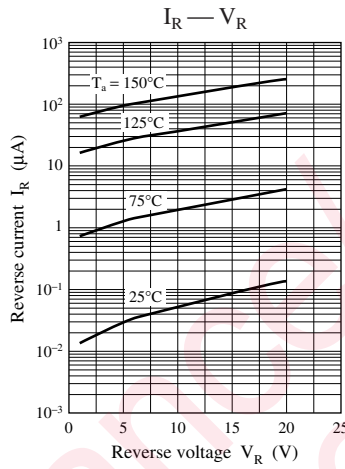
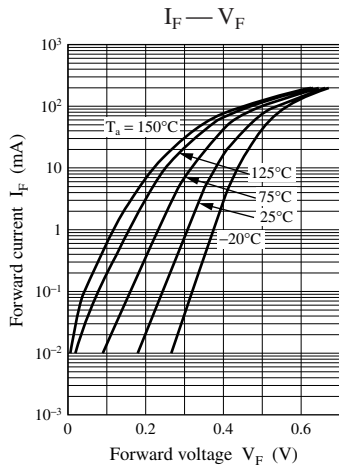
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 10\text{ mA}$		0.38	0.44	V
	$V_{F2}$	$I_F = 100\text{ mA}$		0.54	0.58	
Reverse current	$I_R$	$V_R = 10\text{ V}$			0.3	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 0\text{ V}, f = 1\text{ MHz}$		11		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 100\text{ mA}$ $I_{rr} = 10\text{ mA}, R_L = 100\ \Omega$		1		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. Rated input/output frequency: 250 MHz
4. \*:  $t_{rr}$  measurement circuit



Marking Symbol: 8L



Maintenance/Discontinued

Maintenance/Discontinued includes following four Product lifecycle types:  
 planned maintenance type  
 maintenance type  
 planned discontinued type  
 discontinued type  
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take into the consideration of incidence of break down and failure  
n the systems such as redundant design, arresting the spread of fire  
al injury, fire, social damages, for example, by using the products.

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mounting or at customer's process. When using products for which  
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