MA3S795EG

Silicon epitaxial planar type

For switching For wave detection

Features

- High-density mounting is possible
- \bullet Forward voltage $V_{\rm F}$, optimum for low voltage rectification: $V_{\rm F}$ < 0.3 V
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}

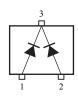
Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter		Symbol	Rating	Unit	
Reverse voltage		V _R	30	V	
Maximum peak reverse voltage		V _{RM}	30	V	
Forward current	Single	т	30	mA	
	Double	I _F	20		
Peak forward current	Single	т	150	mA	
	Double	I _{FM}	110		
Junction temperature		Tj	125	°C	
Storage time		T _{stg}	-55 to +125	°C	

- Package
- Code
- SSMini3-F3
- Pin Name
- 1: Anode 1
- 2: Anode 2
- 3: Cathode

Marking Symbol: M3D

Internal Connection



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

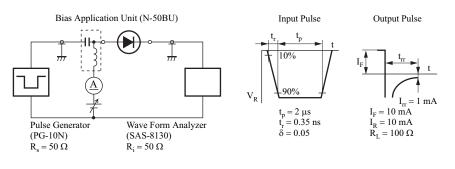
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	$I_F = 1 \text{ mA}$			0.3	V
	V _{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I _R	$V_R = 30 V$			30	μΑ
Terminal capacitance	Ct	$V_{R} = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA},$ $R_L = 100 \Omega$		1.0		ns
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}$, f = 30 MHz R _L = 3.9 kΩ, C _L = 10 pF		65		%

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 2 GHz

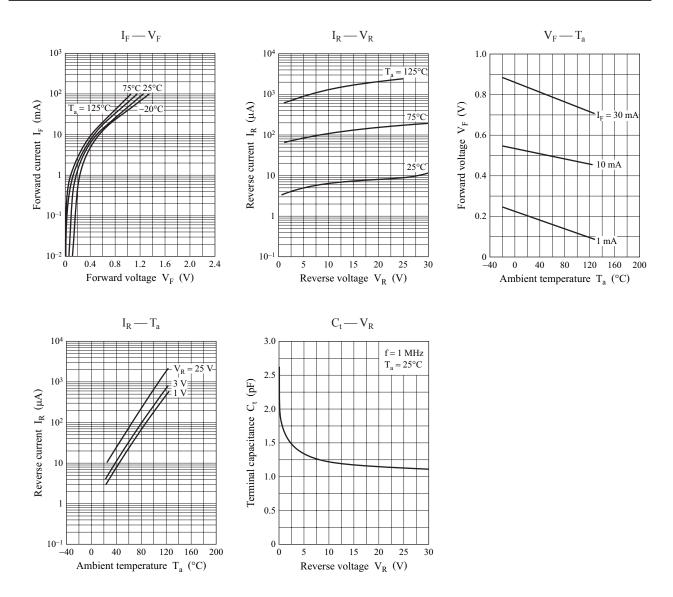
4. *: t_{rr} measurement circuit



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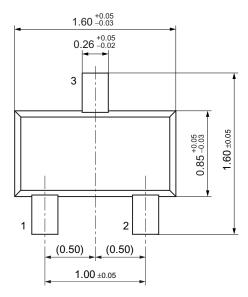
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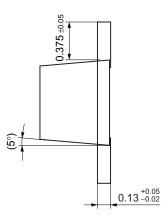


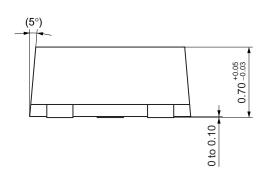
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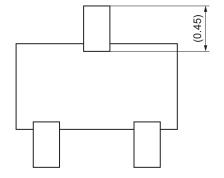
SSMini3-F3

Unit: mm









SKH00236AED

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