MAS3795EG

Silicon epitaxial planar type

For high-speed switching circuits

Features

- High-density mounting is possible
- Optimum for high frequency rectification because of its short reverse recovery time (t_{rr})
- \bullet Forward voltage V_F optimum for low voltage rectification V_F = <0.3~V (at I_F = 1 mA)

Absolute Maximum Hatings $T_a = 25$ C							
Parameter		Symbol	Rating	Unit			
Reverse voltage		V _R	30	V			
Maximum peak reverse voltage		V _{RM}	30	V			
Forward current	Single	I_F	30	mA			
	Double		20				
Peak forward current	Single	I _{FM}	150	mA			
	Double		110				
Junction temperature		Tj	125	°C			
Storage temperature		T _{stg}	-55 to +125	°C			

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

Package

- Code SSSMini3-F2
- Pin Name
 - 1: Anode 1
 - 2: Anode 2
 - 3: Cathode 1, 2
- Marking Symbol: M3

Internal Connection

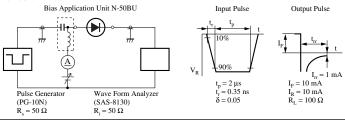


Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

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}	$I_{\rm F} = I_{\rm R} = 10 \text{ mA}$ $I_{\rm rr} = 1 \text{ mA}, R_{\rm L} = 100 \Omega$		1.0		ns
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}, f = 30 MHz$ $R_L = 3.9 k\Omega, C_L = 10 pF$		65		%

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

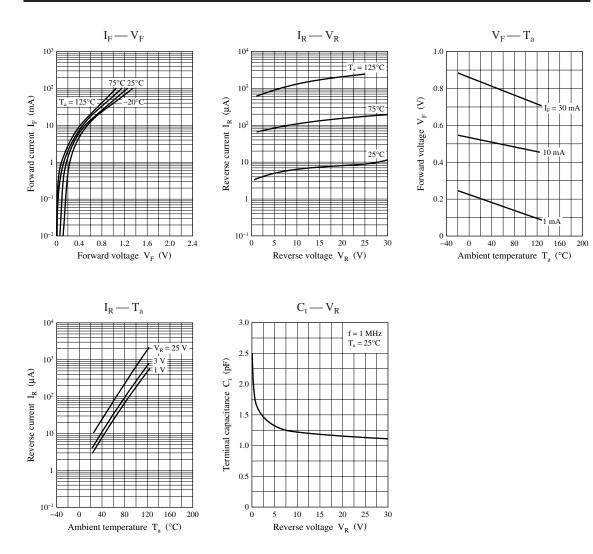
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 2 GHz.
- 4.*: t_{rr} measurement circuit



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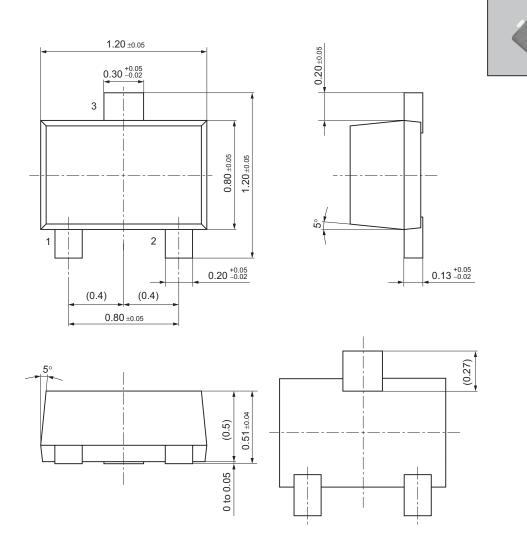


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SSSMini3-F2

Unit: mm



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