MA3S781FG

Silicon epitaxial planar type

For high speed switching circuits For wave detection

■ Features

- Optimum for high-density mounting
- \bullet Short reverse recovery time $t_{\rm rr}$, optimum for high-frequency rectification

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit	
Reverse voltage	V _R	30	V		
Maximum peak reverse voltage		V _{RM}	30	V	
Forward current	Single	T	30	mA	
	Series	I_{F}	20		
Peak forward current	Single	7	150	mA	
	Series	I_{FM}	110		
Junction temperature		T_j	125	°C	
Storage temperature		T _{stg}	-55 to +125	°C	

■ Package

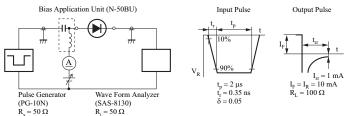
- Code
 - SSMini3-F3
- Pin Name
 - 1: Anode 1
 - 2: Cathode 2
 - 3: Cathode 1
 - Anode 2
- Marking Symbol: M1U
- Internal Connection



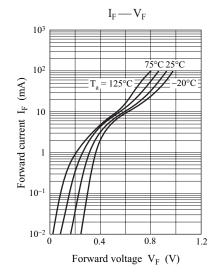
■ Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

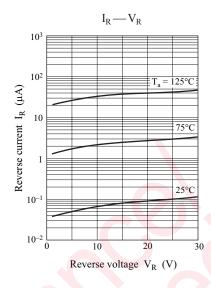
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F1}$	$I_F = 1 \text{ mA}$	60		0.4	V
	V_{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I_R	$V_R = 30 \text{ V}$			300	nA
Terminal capacitance	C_{t}	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *	t _{rr}	$\begin{aligned} I_F = I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA} \\ R_L = 100 \Omega \end{aligned}$		1.0		ns
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}$, f = 30 MHz R _L = 3.9 k Ω , C _L = 10 pF		65		%

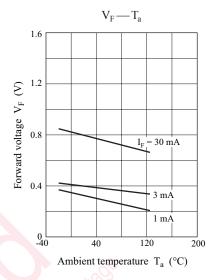
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. Absolute frequency of input and output is 2000 MHz
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. *: t_{rr} measurement circuit

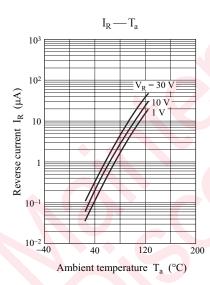


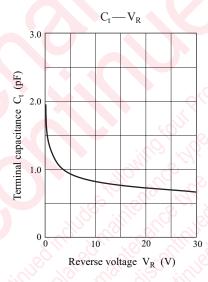
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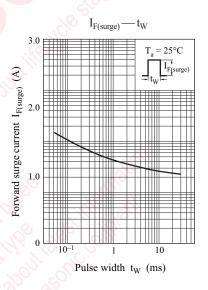


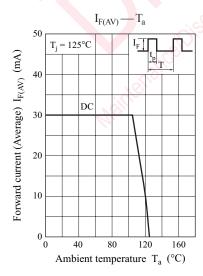








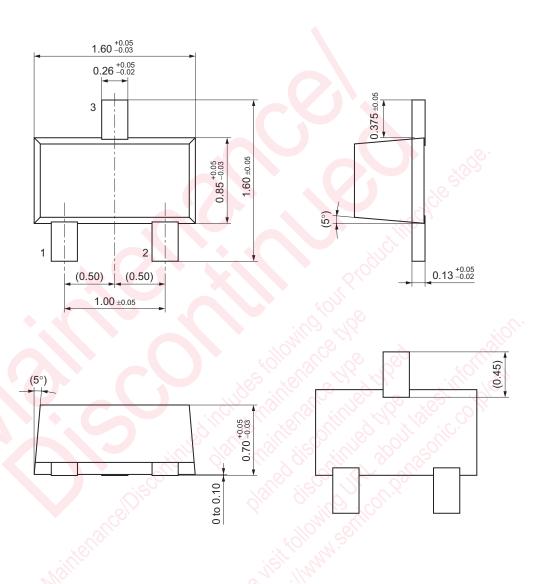




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Panasonic MA3S781FG

SSMini3-F3 Unit: mm



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