MA3S781F

Silicon epitaxial planar type

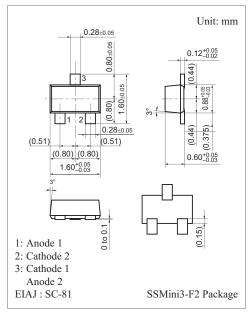
For high speed switching circuits

■ Features

- Optimum for high-density mounting
- ullet Short reverse recovery time t_{rrr} , optimum for high-frequency rectification

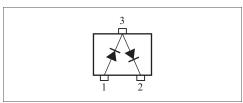
■ Absolute Maximum Ratings $T_a = 25$ °C

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



Marking Symbol: M1U

Internal Connection

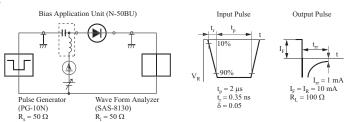


■ Electrical Characteristics $T_a = 25$ °C±3°C

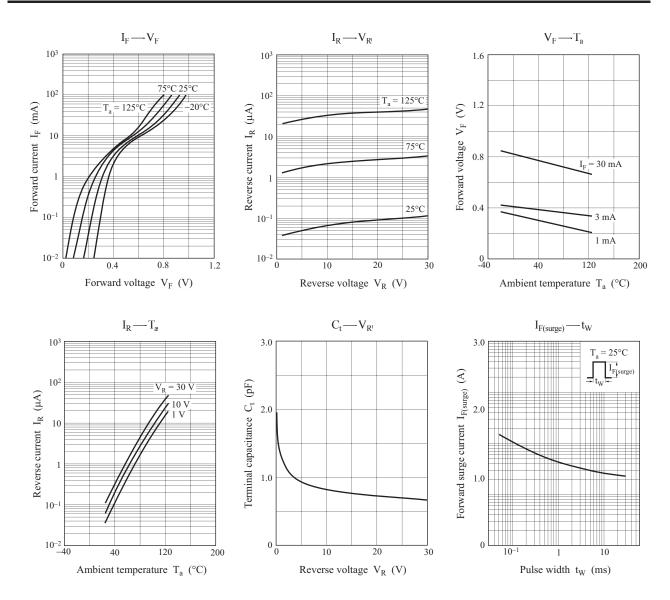
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{Fl}	$I_F = 1 \text{ mA}$			0.4	V
	V_{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I_R	$V_{Rl} = 30 \text{ V}$			300	nA
Terminal capacitance	C_{t}	$V_{Rl} = 1 \text{ V, } f = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_{Rl} = 10 \text{ mA}, I_{rr} = 1 \text{ mA}$ $R_{Ll} = 100 \Omega$		1.0		ns
Detection efficiency	η	$V_{IN^1} = 3 V_{(peak)}$, f = 30 MHz $R_{LI} = 3.9 \text{ k}\Omega$, $C_{LI} = 10 \text{ pF}$		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



MA3S781F Panasonic



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