Panasonic

MAS3795E

Silicon epitaxial planar type

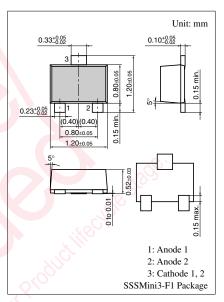
For high-speed switching circuits

■ Features

- High-density mounting is possible
- Optimum for high frequency rectification because of its short reverse recovery time (t_{rr})
- Low forward voltage V_F optimum for low voltage rectification $V_F = < 0.3 \text{ V}$ (at $I_F = 1 \text{ mA}$)
- SSS-Mini type 3-pin package

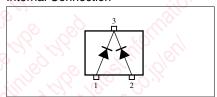
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit	
Reverse voltage (DC)		V_R	30	v	
Peak reverse voltage		V_{RM}	30	V	
Forward current (DC)	Single	I_{F}	30	mA	
	Double		20		
Peak forward current	Single	I_{FM}	150	mA	
	Double		110	101	
Junction temperature		T_{j}	125	°C	
Storage temperature		T _{stg}	-55 to +125	C C	



Marking Symbol: M3

Internal Connection



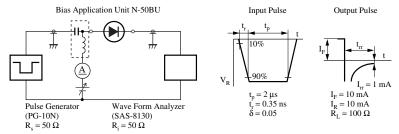
■ Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 30 \text{ V}$		J.	30	μΑ
Forward voltage (DC)	V_{F1}	$I_F = 1 \text{ mA}$	1.9		0.3	V
	V_{F2}	$I_F = 30 \text{ mA}$			1.0	
Terminal capacitance	C _t	$V_R = 1 \text{ V, f} = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$		1.0		ns
		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				
Detection efficiency	η	$V_{in} = 3 V_{(peak)}$, $f = 30 MHz$		65		%
		$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

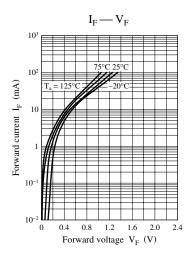
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

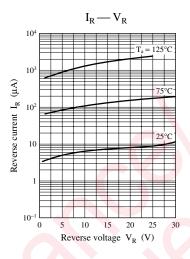
2. Rated input/output frequency: 2 GHz

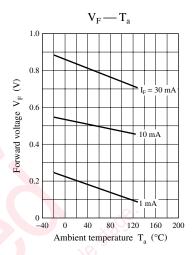
3. *: t_{rr} measuring instrument

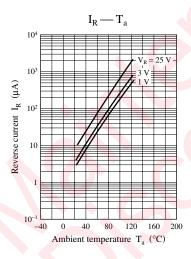


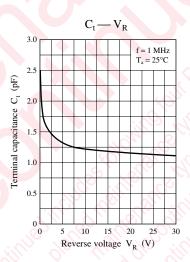
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