# **MA3S795E** (MA795WK)

## Silicon epitaxial planar type

#### For switching

#### ■ Features

- High-density mounting is possible
- $\bullet$  Forward voltage  $V_F$ , optimum for low voltage rectification:  $V_F < 0.3 \text{ V}$
- Optimum for high frequency rectification because of its short reverse recovery time t<sub>rr</sub>

## ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit	
Reverse voltage	V <sub>R</sub>	30	V		
Maximum peak reverse vo	V <sub>RM</sub>	30	V		
Forward current	Single	T	30	mA	
	Double	$I_{\mathrm{F}}$	20		
Peak forward current	Single	I	150	mA	
	Double	$I_{FM}$	110		
Junction temperature		T <sub>j</sub>	125	°C	
Storage time		T <sub>stg</sub>	-55 to +125	°C //	

### ■ Package

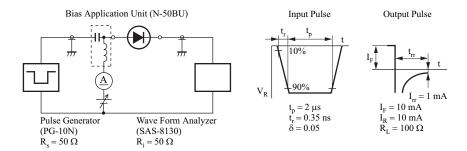
- Code
  - SSMini3-F2
- Pin Name
  - 1: Anode 1
  - 2: Anode 2
  - 3: Cathode
- Marking Symbol: M3D
- Internal Connection



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

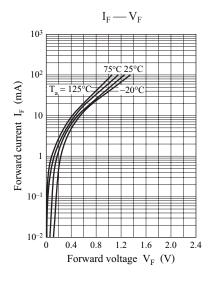
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 1 \text{ mA}$	1/1/10		0.3	V
	$V_{F2}$	$I_F = 30 \text{ mA}$	50, 25		1.0	
Reverse current	$I_R$	$V_R = 30 \text{ V}$	20,0		30	μΑ
Terminal capacitance	$C_{t}$	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$	15	1.5		pF
Reverse recovery time *	t <sub>rr</sub>	$\begin{aligned} &I_F = I_R = 10 \text{ mA}, \ I_{rr} = 1 \text{ mA}, \\ &R_L = 100 \ \Omega \end{aligned}$		1.0		ns
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}$ , f = 30 MHz R <sub>L</sub> = 3.9 k $\Omega$ , C <sub>L</sub> = 10 pF		65		%

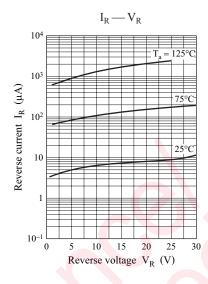
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
  - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.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

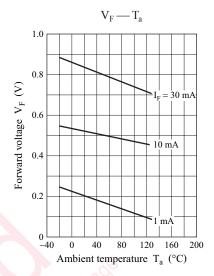


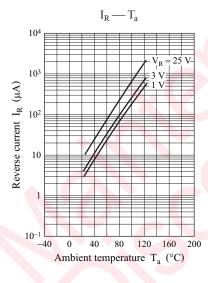
Note) The part number in the parenthesis shows conventional part number.

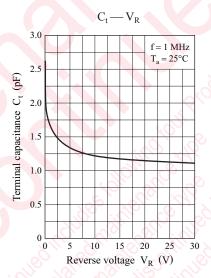
MA3S795E Panasonic







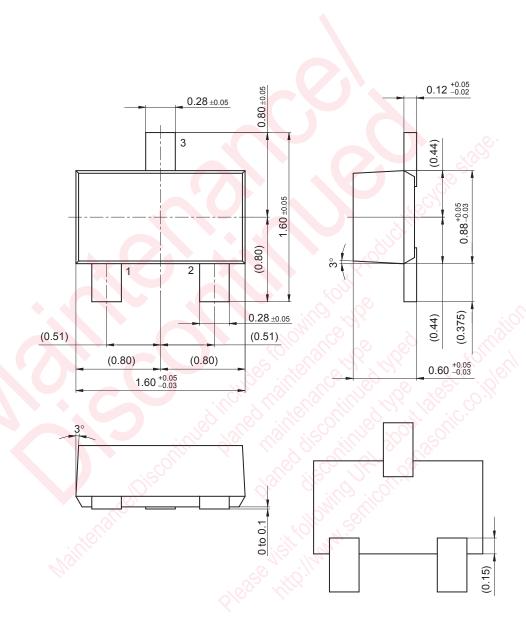




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Panasonic MA3S795E

SSMini3-F2 Unit: mm



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