MA3S795D (MA795WA)

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_{rr}

■ Absolute Maximum Ratings $T_a = 25$ °C

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

■ Package

- Code
 - SSMini3-F2
- Pin Name
 - 1: Cathode 1
 - 2: Cathode 2
 - 3: Anode

■ Marking Symbol: M3E

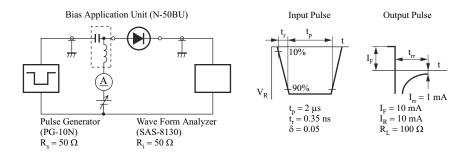
■ Internal Connection



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

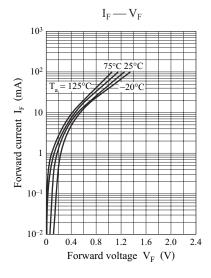
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$	11/10		0.3	V
	V_{F2}	$I_F = 30 \text{ mA}$	30, 20		1.0	
Reverse current	I_R	$V_R = 30 \text{ V}$	2/10		30	μΑ
Terminal capacitance	C_{t}	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$	1.9	1.5		pF
Reverse recovery time *	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		%

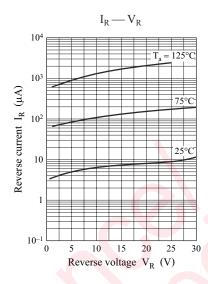
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.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

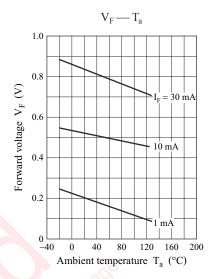


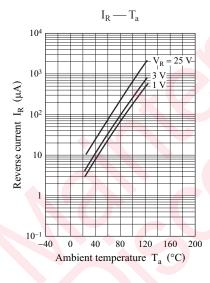
Note) The part number in the parenthesis shows conventional part number.

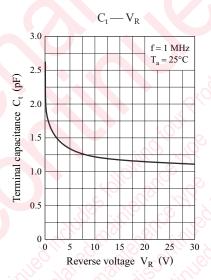
MA3S795D Panasonic







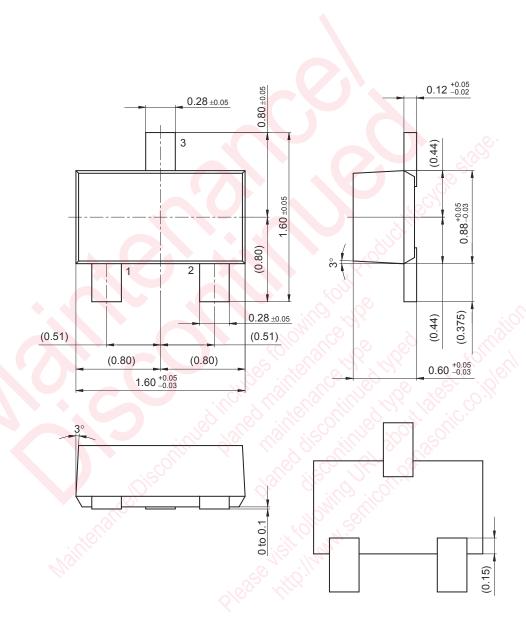




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Panasonic MA3S795D

SSMini3-F2 Unit: mm



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