

MA3S795E (MA795WK)

Silicon epitaxial planar type

For switching

■ Features

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

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

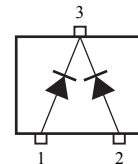
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Maximum peak reverse voltage	V_{RM}	30	V
Forward current	Single	30	mA
	Double	20	
Peak forward current	Single	150	mA
	Double	110	
Junction temperature	T_j	125	$^\circ\text{C}$
Storage time	T_{stg}	-55 to +125	$^\circ\text{C}$

■ Package

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

■ Marking Symbol: M3D

■ Internal Connection

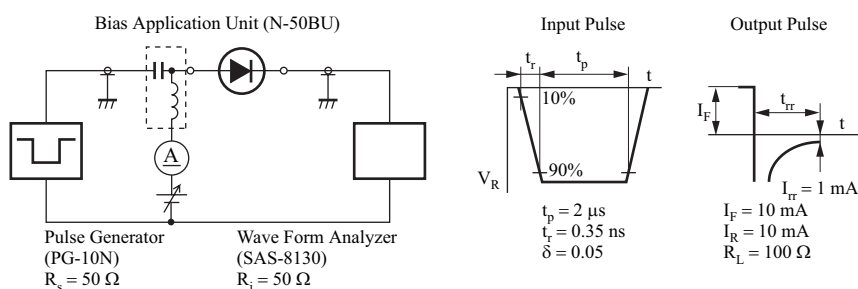


■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

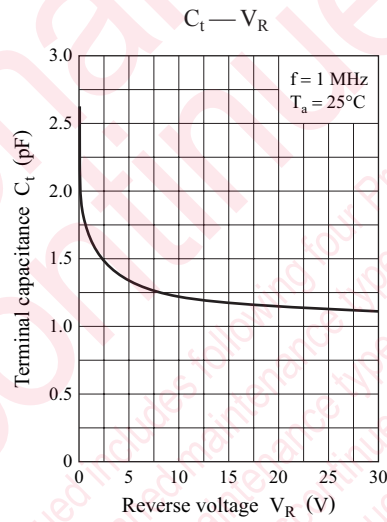
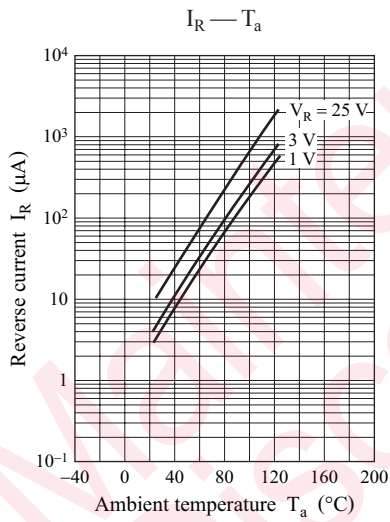
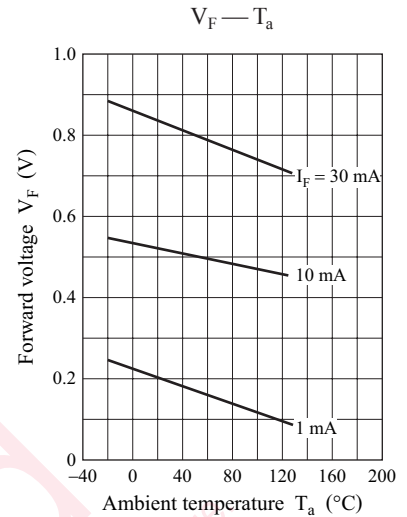
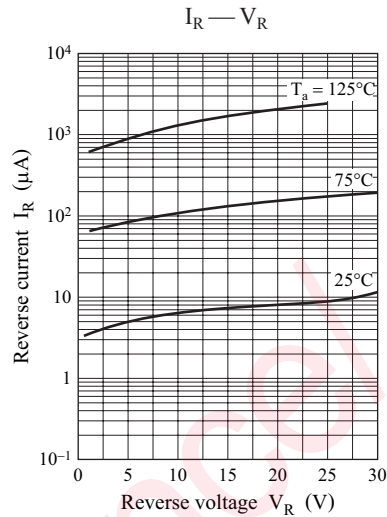
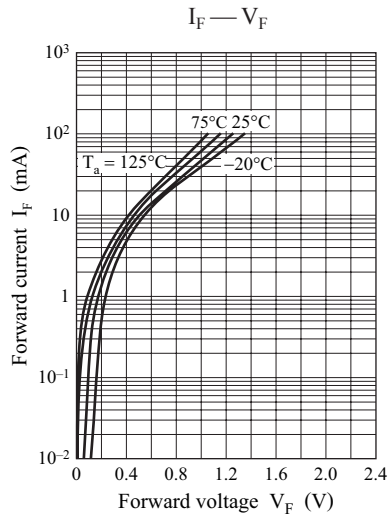
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 1$ mA			0.3	V
	V_{F2}	$I_F = 30$ mA			1.0	
Reverse current	I_R	$V_R = 30$ V			30	μA
Terminal capacitance	C_t	$V_R = 1$ V, $f = 1$ MHz		1.5		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 10$ mA, $I_{rr} = 1$ mA, $R_L = 100$ Ω		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

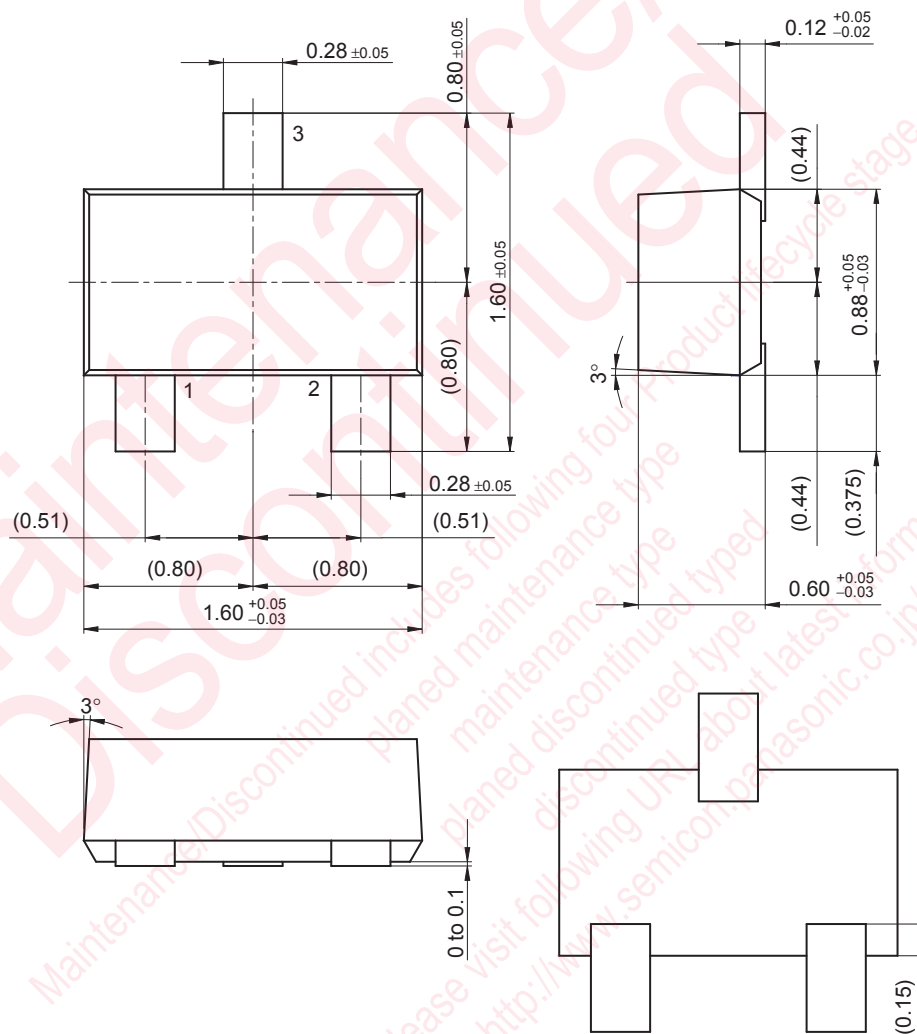


Note) The part number in the parenthesis shows conventional part number.



SSMini3-F2

Unit: mm



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