

MA3S795D (MA795WA), MA3S795E (MA795WK)

Silicon epitaxial planar type

For switching

■ Features

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

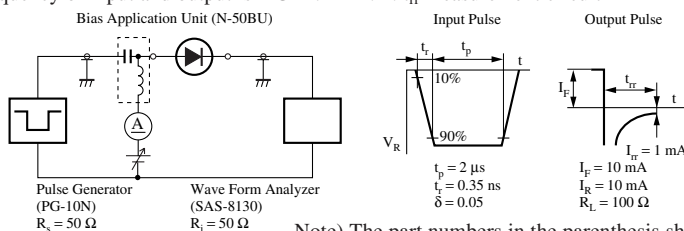
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

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

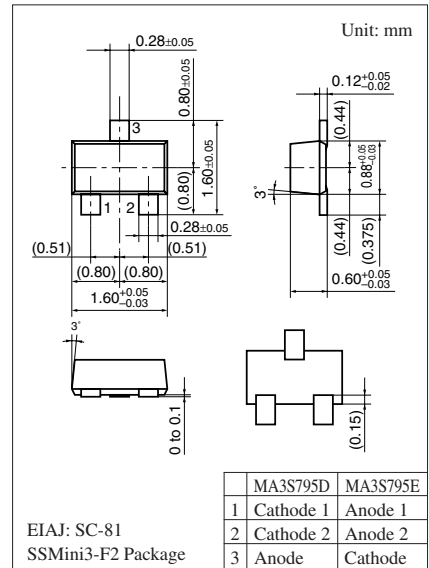
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 1\text{ mA}$			0.3	V
	V_{F2}	$I_F = 30\text{ mA}$			1.0	
Reverse current	I_R	$V_R = 30\text{ V}$			30	μA
		$V_R = 30\text{ V}$			50	
Terminal capacitance	C_t	$V_R = 1\text{ V}, f = 1\text{ MHz}$		1.5		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 10\text{ mA}$ $I_{rr} = 1\text{ mA}, R_L = 100\ \Omega$		1.0		ns
Detection efficiency	η	$V_{IN} = 3\text{ V (peak)}, f = 30\text{ MHz}$ $R_L = 3.9\text{ k}\Omega, C_L = 10\text{ pF}$		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



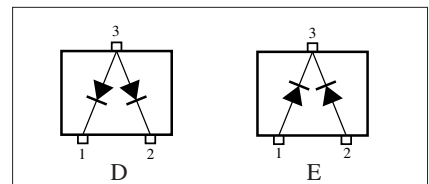
Note) The part numbers in the parenthesis show conventional part number.

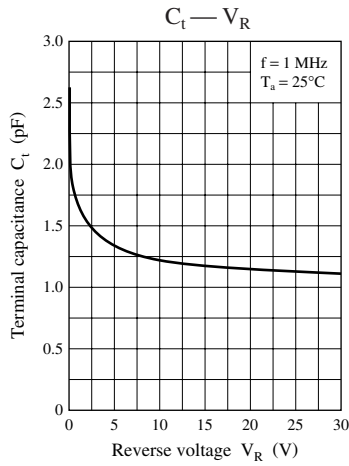
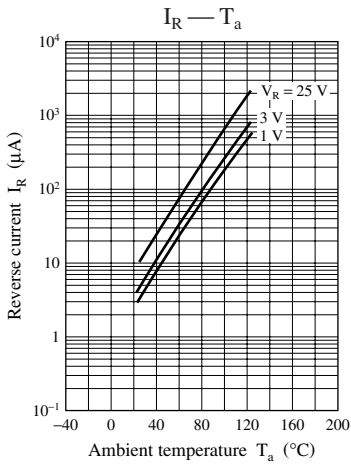
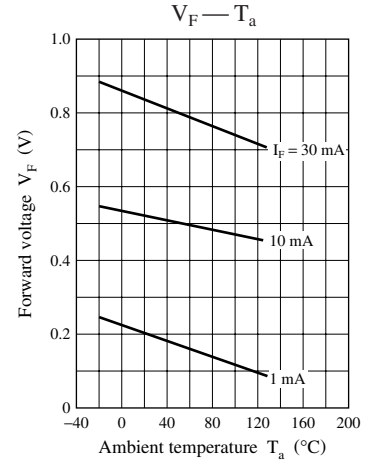
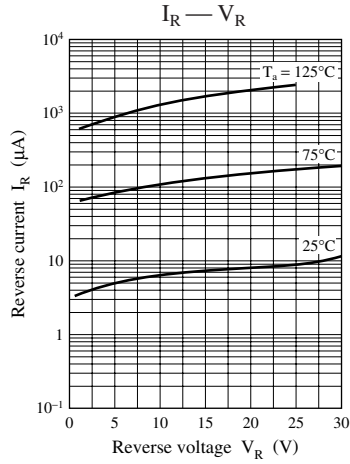
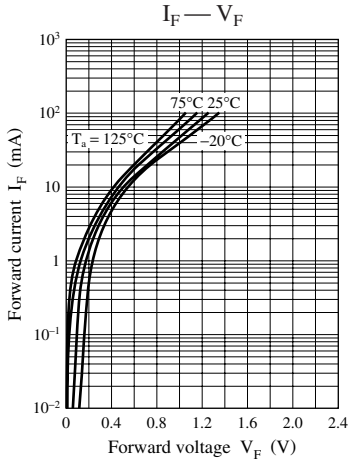


Marking Symbol

- MA3S795D: M3E
- MA3S795E: M3D

Internal Connection





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