MA3S795D, MA3S795E (MA795WA, MA795WK)

Silicon epitaxial planar type

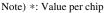
For switching

Features

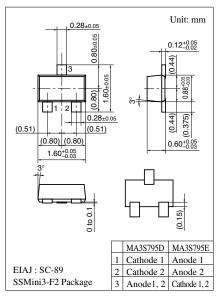
- High-density mounting is possible
- Low forward voltage V_F, optimum for low voltage rectification: $V_F < 0.3 V (at I_F = 1 mA)$
- Optimum for high frequency rectification because of its short reverse recovery time (t_{rr})
- SS-Mini type 3-pin package

)	Symbol V _R V _{RM}	Rating 30 30	Unit V
)			•
	V _{RM}	30	
		50	V
Series	I _{FM}	150	mA
Double *		110	
Series	I_F	30	mA
Double *		20	
Junction temperature		125	°C
Storage temperature		-55 to +125	°C
	Double * Series	Double *	Double *IIIDouble *IIISeriesIF30Double *20Tj125

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



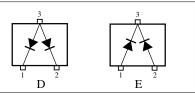
Electrical Characteristics $T_a = 25^{\circ}C$



Marking Symbol

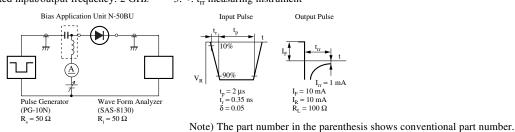
• MA3S795D: M3D • MA3S795E: M3D

Internal Connection



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

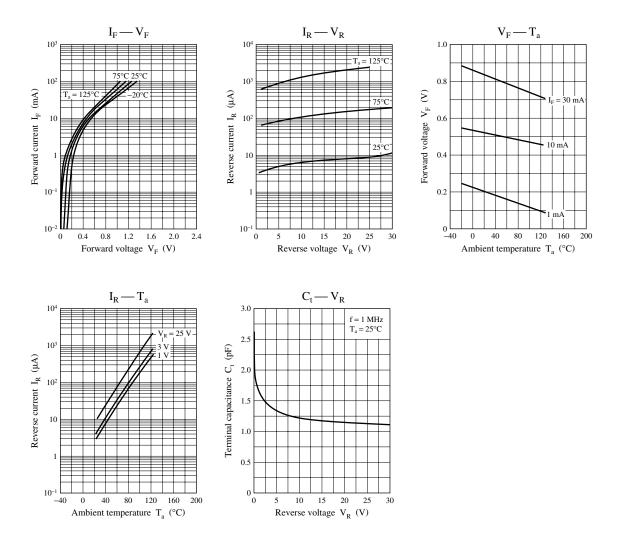
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.



2. Rated input/output frequency: 2 GHz

3. *: t_{rr} measuring instrument

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