

# MA3S795E (MA795WK)

## Silicon epitaxial planar type

For switching circuits

### ■ Features

- Extra-small (SS-mini type) package, allowing high-density mounting
- Optimum for low voltage rectification because of its low  $V_F$  ( $V_F = 0.3$  V or less at  $I_F = 1$  mA)
- 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 (DC)	$V_R$	30	V
For switching circuits	$V_{RM}$	30	V
Peak forward current	Single	150	mA
	Double*		
Forward current (DC)	Single	$I_F$	mA
	Double*		
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

Note) \* : Value per chip

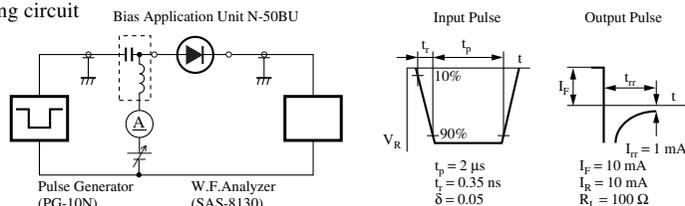
### ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 30$ V			30	$\mu\text{A}$
Forward voltage (DC)	$V_{F1}$	$I_F = 1$ mA			0.3	V
		$I_F = 30$ mA			1	V
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, $R_L = 100$ $\Omega$		1		ns
Detection efficiency	$\eta$	$V_{in} = 3$ V <sub>(peak)</sub> , $f = 30$ MHz $R_L = 3.9$ k $\Omega$ , $C_L = 10$ pF		65		%

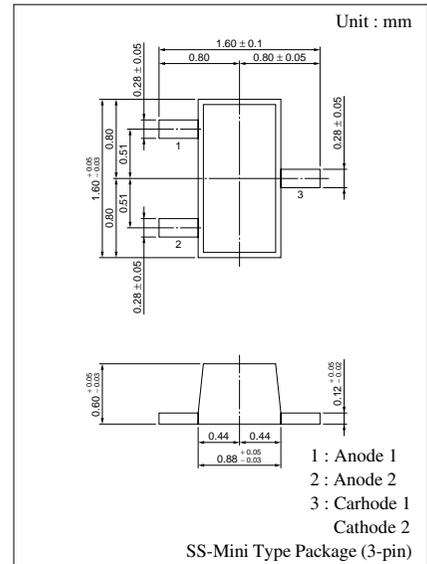
Note) 1. Schottky barrier diode is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

2. Rated input/output frequency: 2 000 MHz

3. \*:  $t_{rr}$  measuring circuit

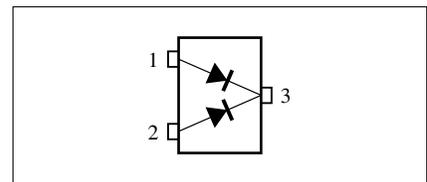


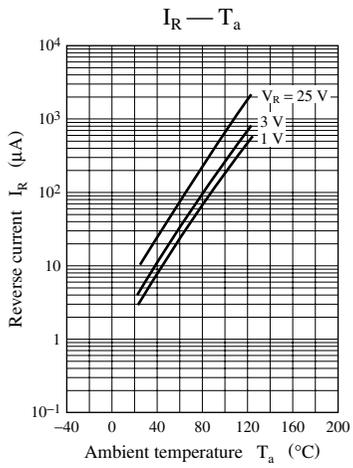
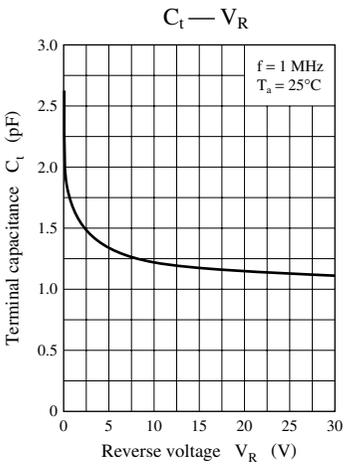
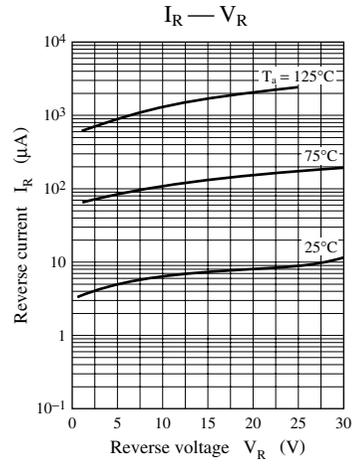
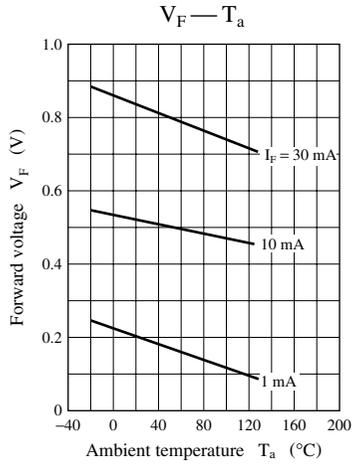
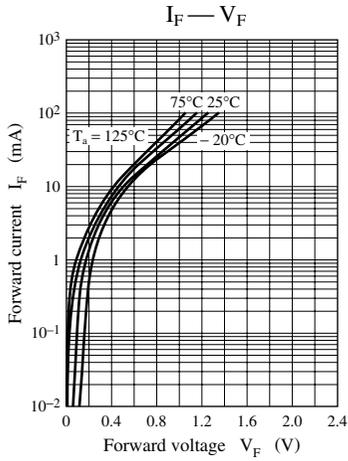
Note) The part number in the parenthesis shows conventional part number.



Marking Symbol: M3D

Internal Connection





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