



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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  $t_{rr}$

■ Package

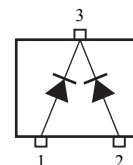
- Code SSMINI3-F2
- Pin Name
  - 1: Anode 1
  - 2: Anode 2
  - 3: Cathode

■ 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	$^\circ\text{C}$

■ Marking Symbol: M3D

■ Internal Connection

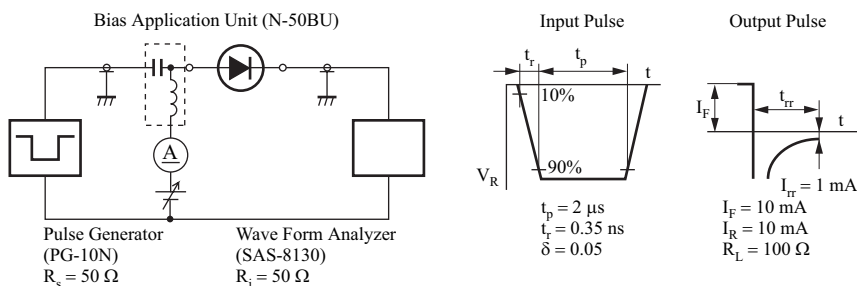


■ Electrical Characteristics  $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

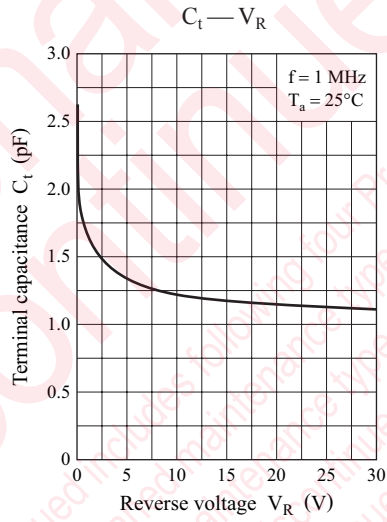
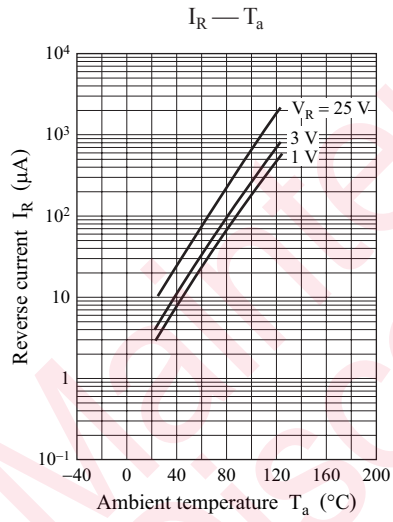
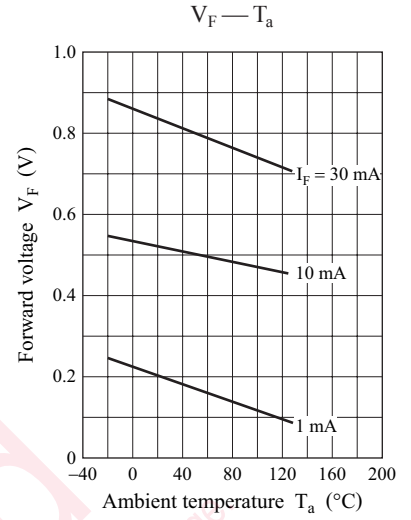
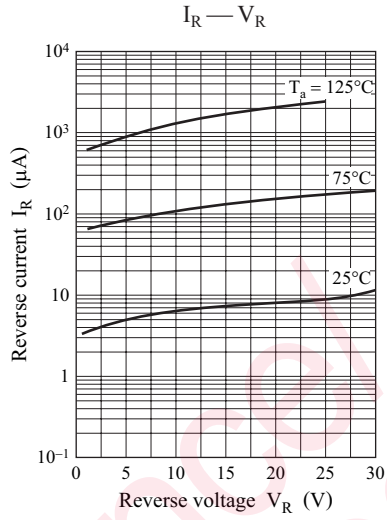
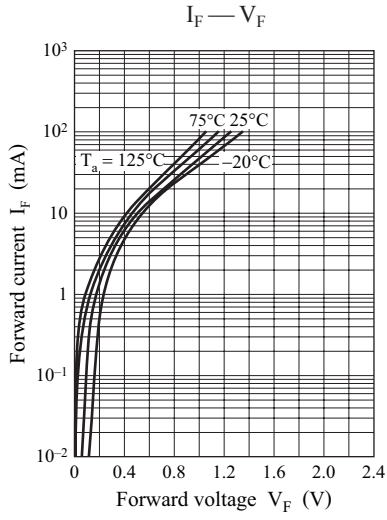
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F1}$	$I_F = 1$ mA			0.3	V
	$V_{F2}$	$I_F = 30$ mA			1.0	
Reverse current	$I_R$	$V_R = 30$ V			30	$\mu\text{A}$
Terminal capacitance	$C_t$	$V_R = 1$ V, $f = 1$ MHz		1.5		pF
Reverse recovery time *	$t_{rr}$	$I_F = I_R = 10$ mA, $I_{rr} =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

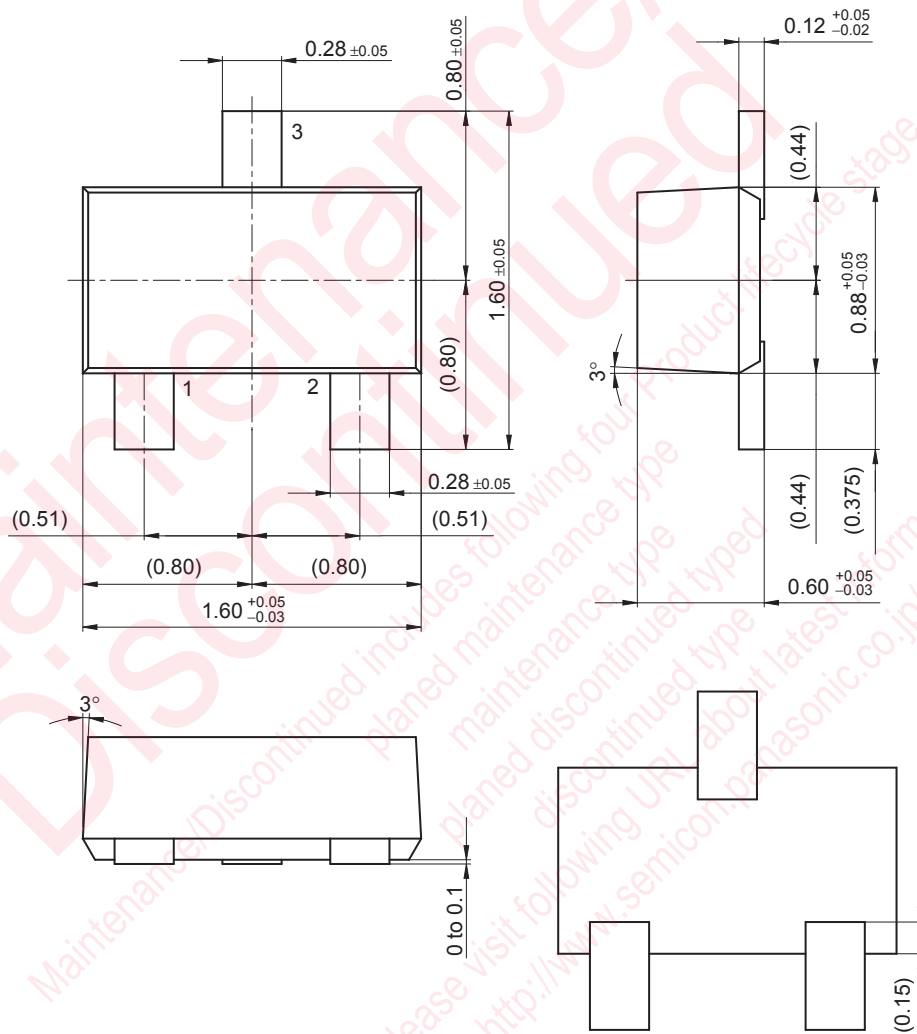


Note) The part number in the parenthesis shows conventional part number.



SSMini3-F2

Unit: mm



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