

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







MA27D290G

Silicon epitaxial planar type

For super high speed switching

■ Features

- Low forward voltage: $V_F < 0.42 \text{ V}$ (at $I_F = 100 \text{ mA}$)
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}.

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Repetitive peak reverse voltage	V _{RRM}	30	V
Forward current (Average)	$I_{F(AV)}$	100	mA
Peak forward current	I_{FM}	200	mA
Non-repetitive peak forward	I _{FSM}	1	A
surge current *			
Junction temperature	T_{j}	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

Note) *: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

Package

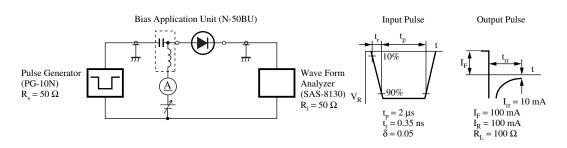
- Code
 - SSSMini2-F3
- Pin Name
 - 1: Anode
 - 2: Cathode
- Marking Symbol: 8M

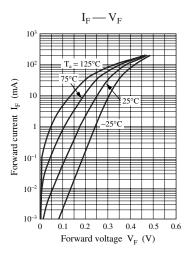
■ Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

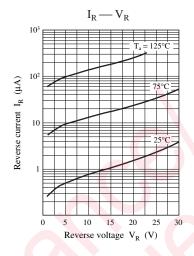
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 10 \text{ mA}$		0.25	0.29	V
	V _{F2}	$I_{\rm F} = 100 \text{ mA}$	00	0.39	0.42	V
Reverse current	I_{R1}	$V_R = 10 \text{ V}$)	25	μΑ
	I_{R2}	$V_R = 30 \text{ V}$	150		120	μΑ
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$		9		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		1		ns
		$I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$				

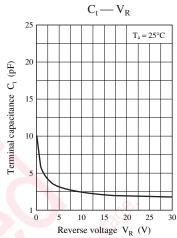
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

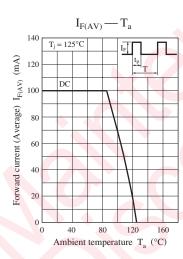
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 MHz
- 4. *: t_{rr} measurement circuit







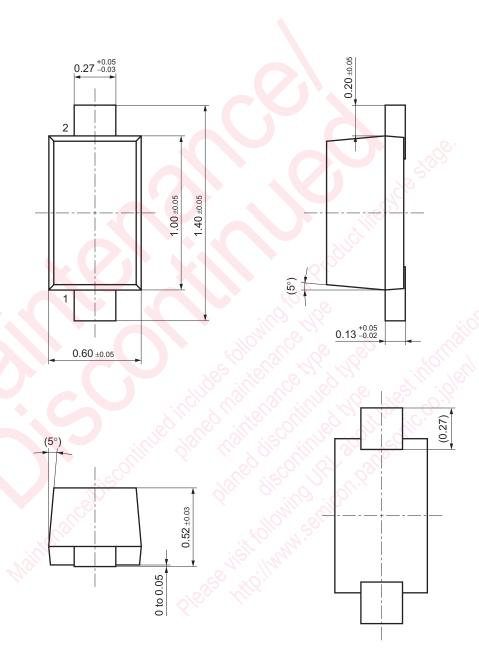




2 SKH00166AED

SSSMini2-F3

Unit: mm



SKH00166AED 3

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