



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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MA22D39

Silicon epitaxial planar type

For high speed switching circuits

■ Features

- Optimum for forward current (Effective value) $I_{F(RMS)} = 1.57$ A rectification
- Reverse voltage $V_R = 40$ V is guaranteed

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	40	V
Maximum peak reverse voltage	V_{RM}	40	V
Forward current (Effective value) *1	$I_{F(RMS)}$	1.57	A
Non-repetitive peak forward surge current *2	I_{FSM}	30	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Note) *1: Mounted on an alumina PC board

*2: 50 Hz sine wave 1 cycle (Non-repetitive peak current)

■ Package

- Code
Mini2-F1
- Pin Name
1: Anode
2: Cathode

■ Marking Symbol: 3N

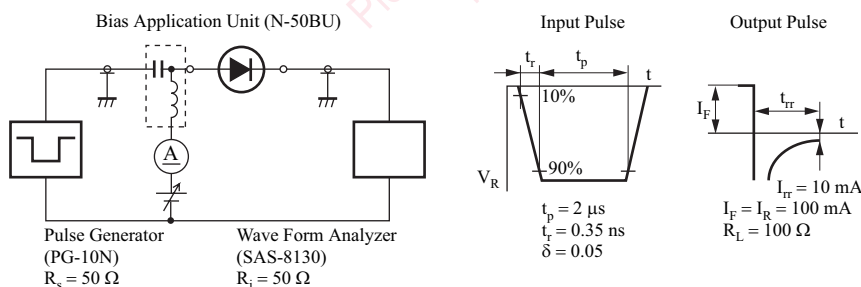
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

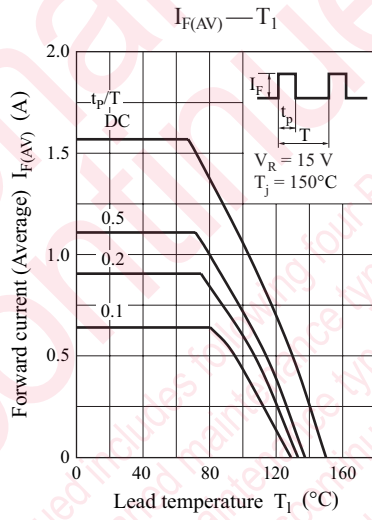
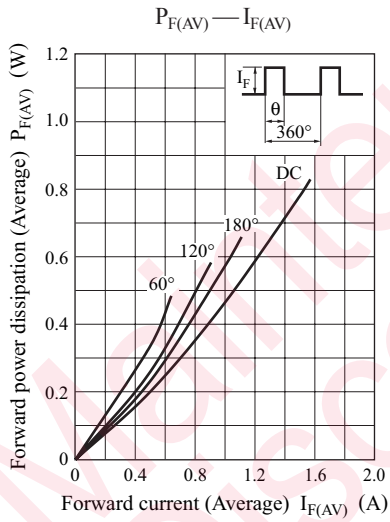
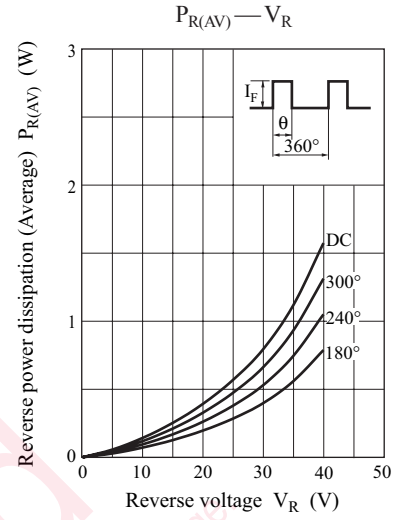
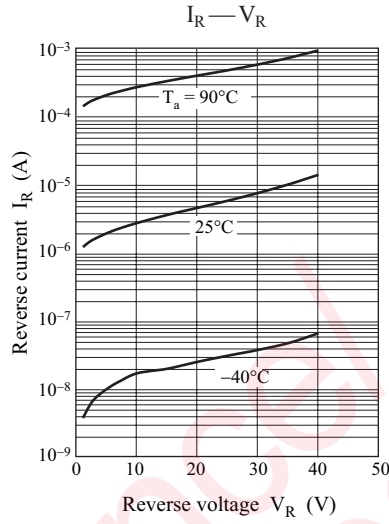
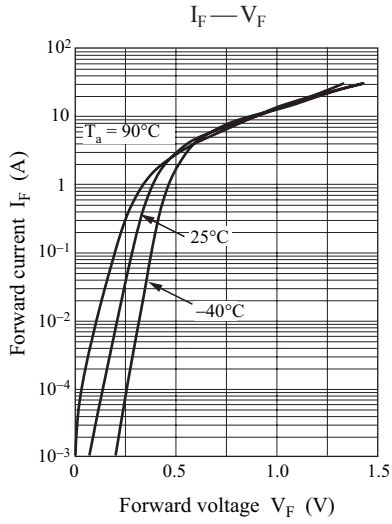
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 0.5$ A			0.48	V
	V_{F2}	$I_F = 1.1$ A			0.54	
	V_{F3}	$I_F = 1.5$ A			0.57	
Reverse current	I_R	$V_R = 40$ V			100	μA
Terminal capacitance	C_t	$V_R = 10$ V, $f = 1$ MHz		50		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA, $I_{rr} = 10$ mA, $R_L = 100 \Omega$		30		ns

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.

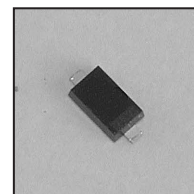
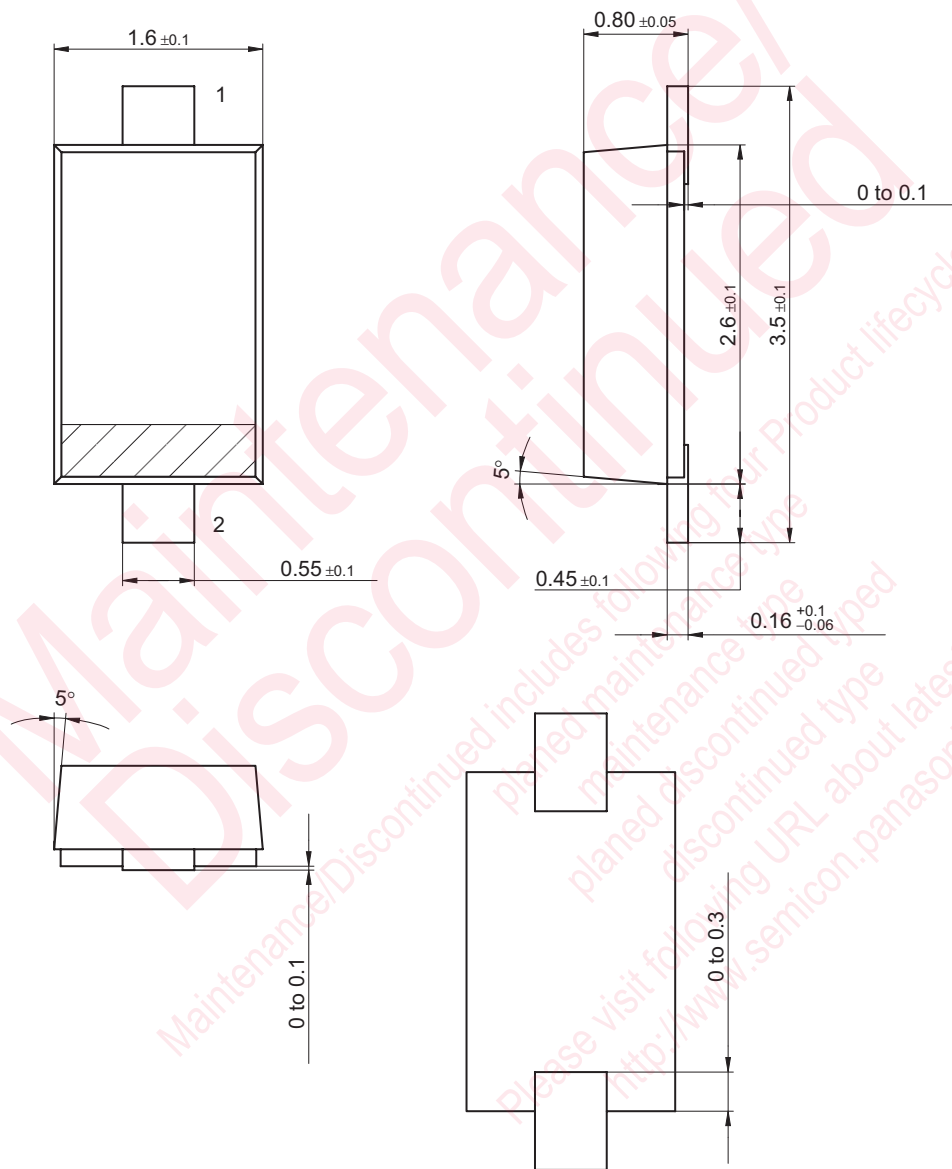
3. *: t_{rr} measurement circuit





Mini2-F1

Unit: mm



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