MA2SD100G

Silicon epitaxial planar type

For super high speed switching

■ Features

- Forward current (Average) $I_{F(AV)}$ = 200 mA rectification is possible
- Low forward voltage V_F
- High-density mounting is possible

■ Package

- Code
  SSMini2-F4
- Pin Name
  1: Anode
  2: Cathode

■ Marking Symbol: 2L

■ Absolute Maximum Ratings T_a = 25°C

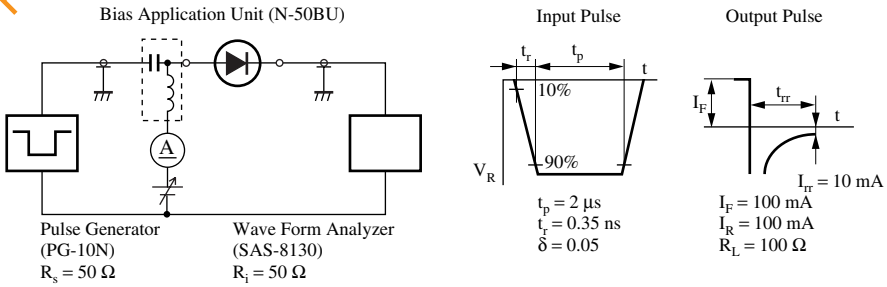
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	20	V
Repetitive peak reverse voltage	V_{RRM}	20	V
Forward current (Average)	$I_{F(AV)}$	200	mA
Peak forward current	I_{FM}	300	mA
Non-repetitive peak forward surge current *	I_{FSM}	1	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	−55 to +125	°C

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

■ Electrical Characteristics T_a = 25°C ± 3°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	I_F = 5 mA			0.27	V
	V_{F2}	I_F = 100 mA			0.40	
	V_{F3}	I_F = 200 mA			0.47	
Reverse current	I_R	V_R = 10 V			20	µA
Terminal capacitance	C_t	V_R = 0 V, f = 1 MHz		25		pF
Reverse recovery time	t_{rr}	$I_F = I_R$ = 100 mA I_{rr} = 10 mA, R_L = 100 Ω		3		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. Absolute frequency of input and output is 250 MHz.
4. *: t_{rr} measurement circuit



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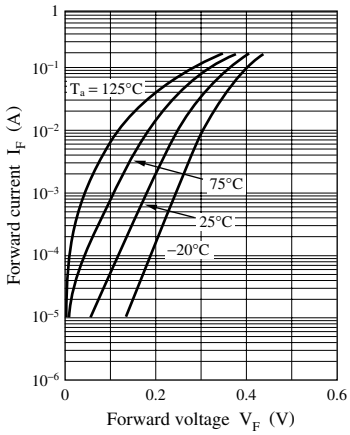
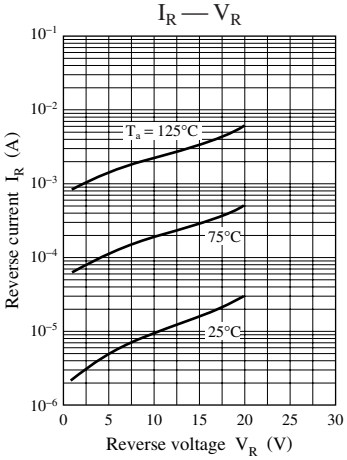
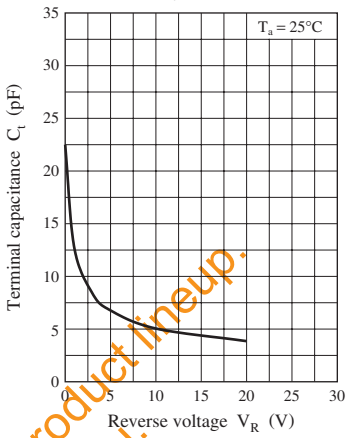
I_F — V_F



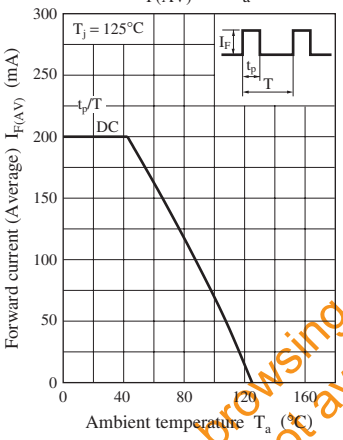
I_R — V_R



C_t — V_R



$I_{F(AV)}$ — T_a



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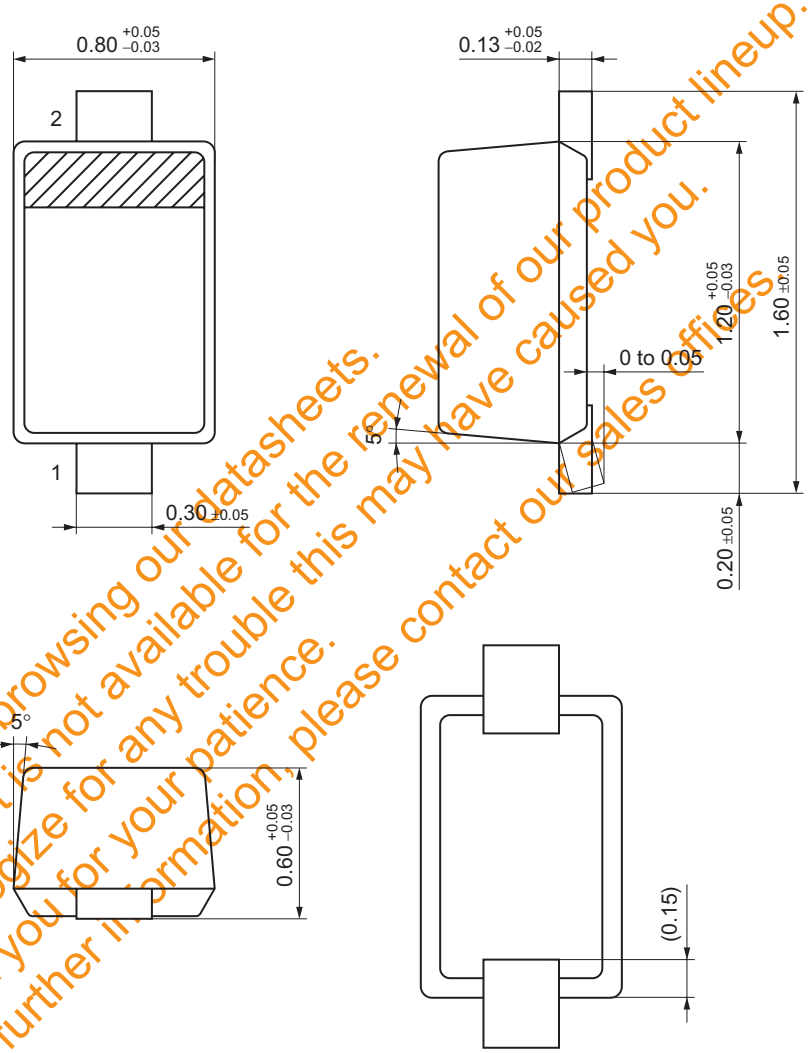
SSMini2-F4

Unit: mm



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