Panasonic

MA2ZD020G

Silicon epitaxial planar type

For high frequency rectification

■ Features
- Small reverse current I_R

■ Package
- Code
  SMini2-F3
- Pin Name
  1: Anode
  2: Cathode

■ Marking Symbol: 2H

■ Absolute Maximum Ratings $T_a = 25°C$

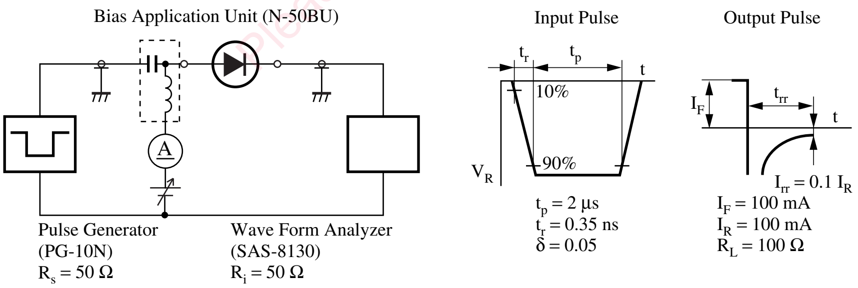
Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	20	V
Repetitive peak reverse voltage	V_{RRM}	20	V
Forward current (Average)	$I_{F(AV)}$	500	mA
Non-repetitive peak forward surge current *	I_{FSM}	3	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	−55 to +125	°C

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

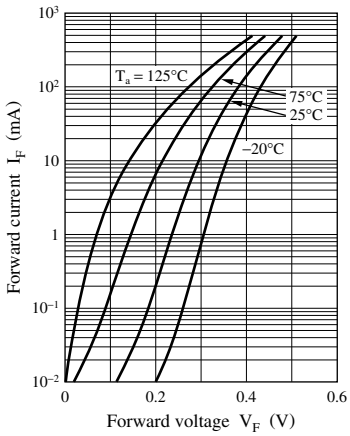
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_{F1}	$I_F = 10$ mA		0.30	0.40	V
	V_{F2}	$I_F = 500$ mA		0.50	0.55	
Reverse current	I_{R1}	$V_R = 5$ V			1	μA
	I_{R2}	$V_R = 10$ V			10	
Terminal capacitance	C_t	$V_R = 0$ V, f = 1 MHz		60		pF
Reverse recovery time *	t_{rr}	$I_F = I_R = 100$ mA $I_{rr} = 0.1\ I_R$, $R_L = 100\ \Omega$		5		ns

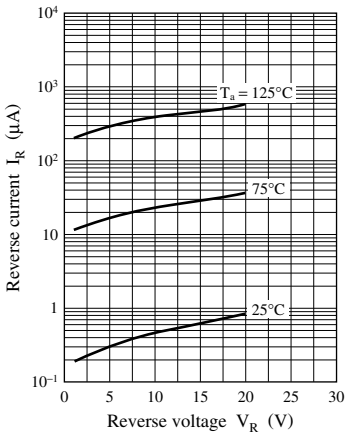
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
3. Absolute frequency of input and output is 400 MHz.
4. *: t_{rr} measurement circuit



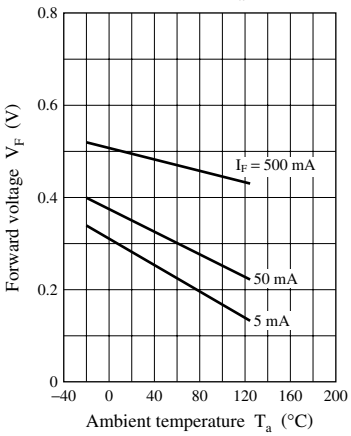
I_F — V_F



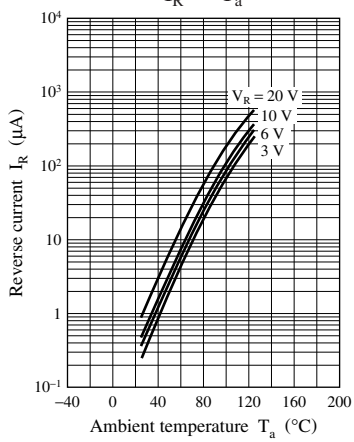
I_R — V_R



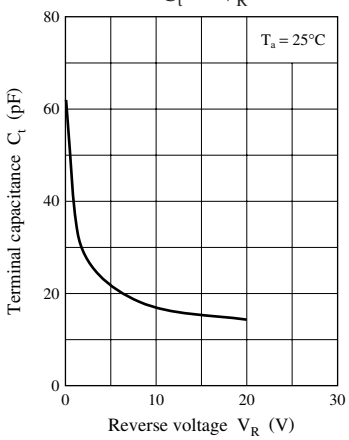
V_F — T_a



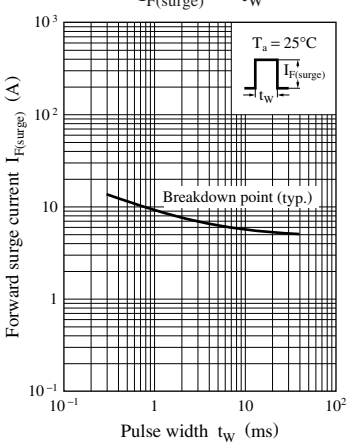
I_R — T_a



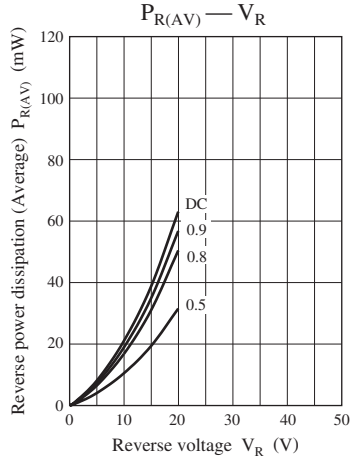
C_t — V_R



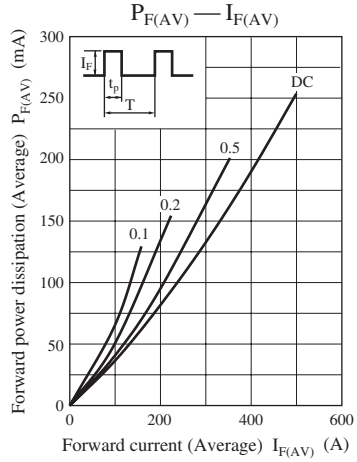
$I_{F(surge)}$ — t_W



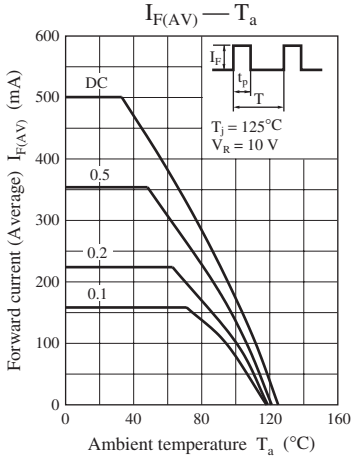
$P_{R(AV)}$ — V_R



$P_{F(AV)}$ — $I_{F(AV)}$

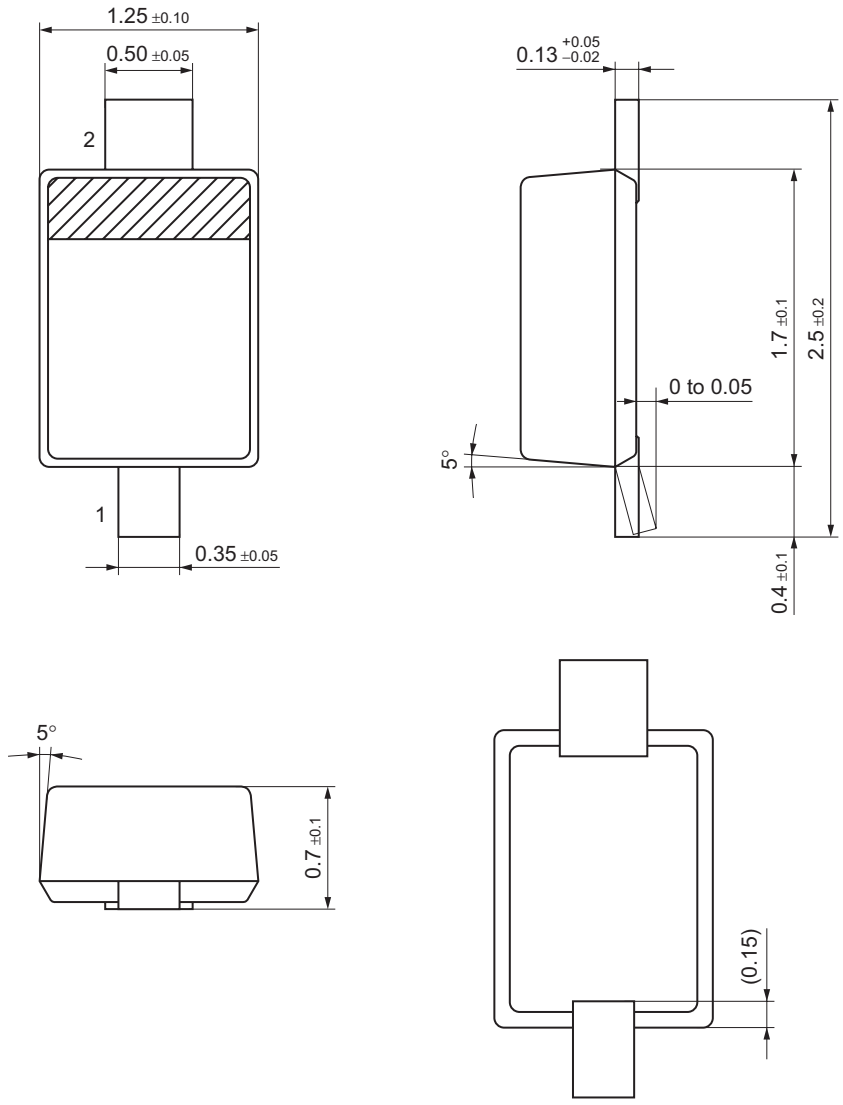


$I_{F(AV)}$ — T_a



SMini2-F3

Unit: mm



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