

MA4ZD03

Silicon epitaxial planar type

For high speed switching

For small type power supply

For DC/DC converter

■ Features

- Two isolated elements are contained in one package, allowing high-density mounting
- $I_F = 100$ mA rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time (t_{rr})
- S-Mini type 4-pin package

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

Parameter	Symbol	Rating	Unit	
Forward current (DC)	Single	I_F	100	mA
	Double		75	
Peak forward current	Single	I_{FM}	300	mA
	Double		225	
Non-repetitive peak forward-surge-current*	Single	I_{FSM}	1	A
	Double		0.75	
Reverse voltage (DC)	V_R	45	V	
Repetitive peak reverse-voltage	V_{RRM}	45	V	
Junction temperature	T_j	125	$^\circ\text{C}$	
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$	

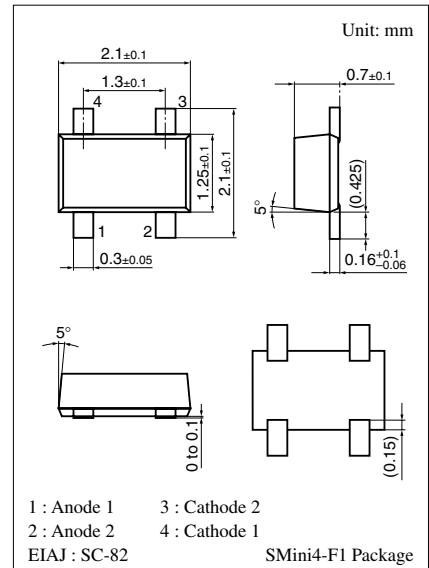
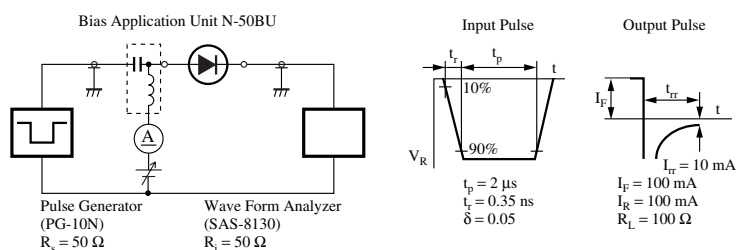
Note) *: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 40$ V		0.5	5	μA
Forward voltage (DC)	V_F	$I_F = 100$ mA		0.54	0.60	V
Terminal capacitance	C_t	$V_R = 0$ V, $f = 1$ MHz		15	18	pF
Reverse recovery time*	t_{rr}	$I_F = I_R = 100$ mA $I_{rr} = 10$ mA, $R_L = 100$ Ω			2.0	ns

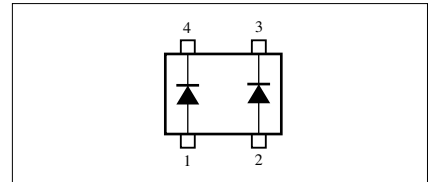
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

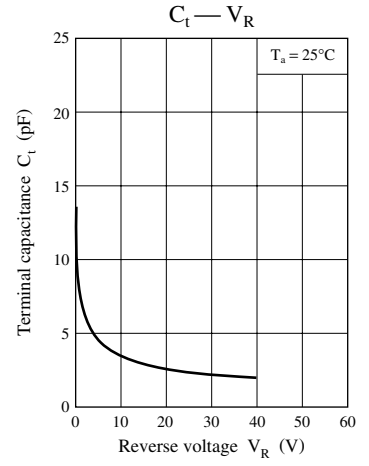
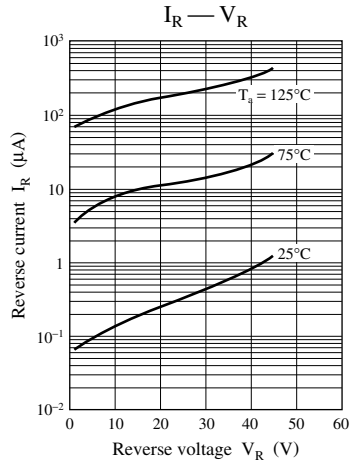
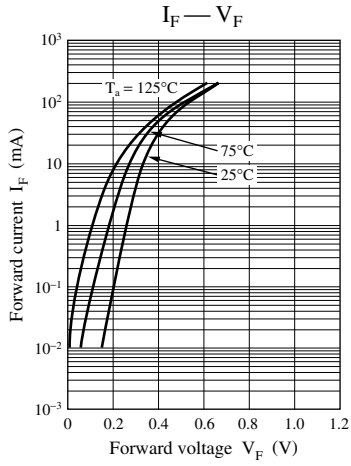
2. Rated input/output frequency: 250 MHz 3. *: t_{rr} measuring instrument



Marking Symbol: M5A

Internal Connection





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