MA4Z159 (MA4S159)

Silicon epitaxial planar type

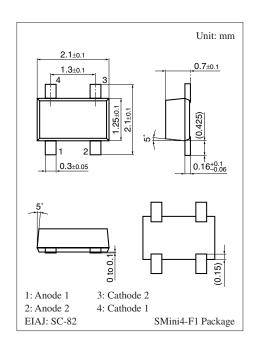
For switching circuits

■ Features

- Two isolated elements contained in one package, allowing highdensity mounting
- Flat lead type, resulting in improved mounting efficiency and solderability with the high-speed mounting machine
- Short reverse recovery time t_{rr}
- Small terminal capacitance C_t

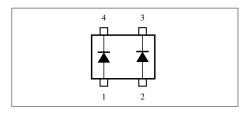
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	80	V
Maximum peak reverse voltage		V_{RM}	80	V
Forward current	Single	I_{F}	100	mA
	Double		75	
Peak forward	Single	I_{FM}	225	mA
current	Double		170	
Non-repetitive peak	Single	I_{FSM}	500	mA
forward surge current*	Double		375	
Junction temperature		T _j	150	°C
Storage temperature		T_{stg}	-55 to +150	°C



Marking Symbol: M1B

Internal Connection



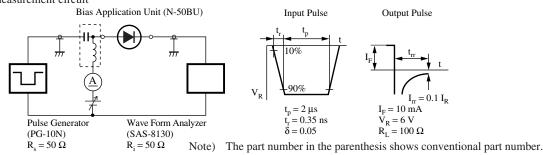
Note) *: t = 1 s

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

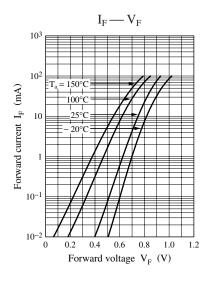
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F}	$I_F = 100 \text{ mA}$		0.95	1.20	V
Reverse voltage	V _R	$I_R = 100 \mu A$	80			V
Reverse current	I_R	V _R = 75 V			0.1	μΑ
Terminal capacitance	Ct	$V_R = 0 \text{ V, f} = 1 \text{ MHz}$		0.9	2.0	pF
Reverse recovery time *	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{rr} = 0.1 I_R, R_L = 100 \Omega$				

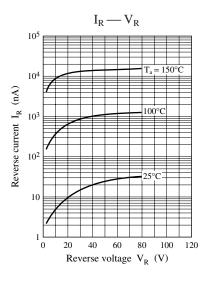
 $Note)\ 1.\ Measuring\ methods\ are\ based\ on\ JAPANESE\ INDUSTRIAL\ STANDARD\ JIS\ C\ 7031\ measuring\ methods\ for\ diodes.$

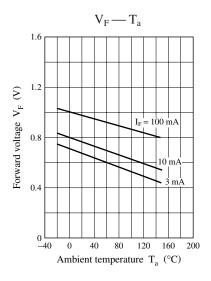
- 2. Absolute frequency of input and output is 100 MHz.
- 3. *: t_{rr} measurement circuit

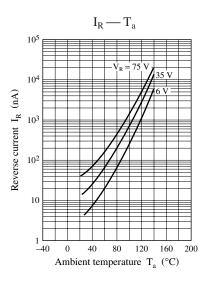


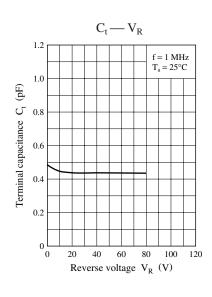
Panasonic

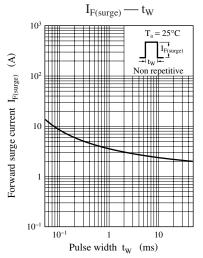












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