Switching Diodes

Panason

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 Ct

Absolute Maximum Ratings $T_a = 25^{\circ}C$								
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	10 ¹⁰				
Non-repetitive peak	Single	I _{FSM}	500	mA				
forward surge current*	Double		375					
Junction temperature		Tj	150	°C				
Storage temperature		T _{stg}	-55 to +150	<u>∕ °C , ⊘</u>				



- 1: Anode 1 3: Cathode 2 4: Cathode 1 2: Anode 2
- Marking Symbol: M1B



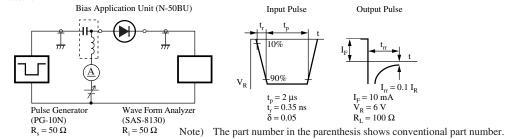
Note) *: t = 1 s

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

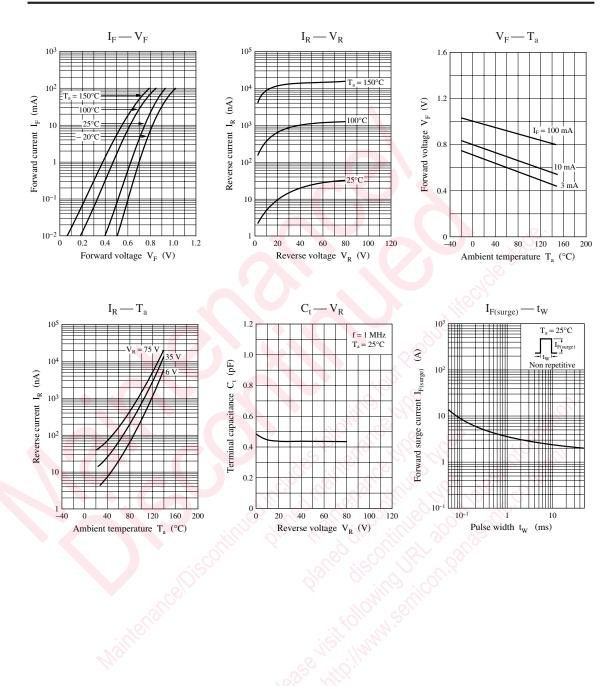
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	I _F = 100 mA	0.1	0.95	1.20	V
Reverse voltage	V _R	I _R = 100 μA	80			V
Reverse current	I _R	V _R = 75 V			0.1	μΑ
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		0.9	2.0	pF
Reverse recovery time *	t _{rr}	$I_{\rm F} = 10 \text{ mA}, V_{\rm R} = 6 \text{ V}$			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. *: trr measurement circuit



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