MA4X159A (MA159A)

Silicon epitaxial planar type

For switching circuits

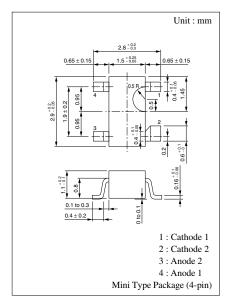
■ Features

- Two isolated elements contained in one package, allowing highdensity mounting
- Short reverse recovery time t_{rr}
- Small terminal capacitance, C_t

■ Absolute Maximum Ratings $T_a = 25$ °C

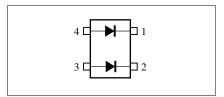
Parameter		Symbol	Rating	Unit	
Reverse voltage (DC)		V_R	80	V	
Repetitive peak reverse voltage		V_{RRM}	80	V	
Average forward current	Single	I _{F(AV)}	100	mA	
	Double	I _{F(AV)}	75	mA/Unit	
Repetitive peak forward current	Single	I_{FRM}	225	mA	
	Double	I_{FRM}	170	mA/Unit	
Non-repetitive peak forward surge current*	Single	I_{FSM}	500	mA	
	Double	I_{FSM}	375	mA/Unit	
Junction temperature		T _j	150	°C	
Storage temperature		T_{stg}	-55 to +150	°C	

Note) * : t = 1 s



Marking Symbol: M1B

Internal Connection

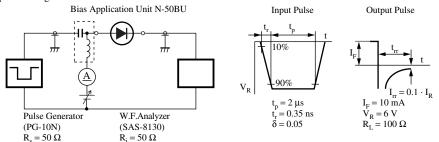


■ Electrical Characteristics $T_a = 25$ °C

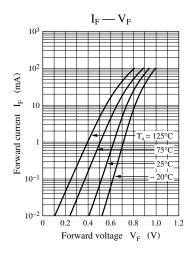
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 75 \text{ V}$			0.1	μΑ
Forward voltage (DC)	V _F	$I_F = 100 \text{ mA}$		0.95	1.2	V
Reverse voltage (DC)	V _R	$I_R = 100 \mu A$	80			V
Terminal capacitance	C _t	$V_R = 0 \text{ V, f} = 1 \text{ MHz}$		0.9	2	pF
Reverse recovery time*	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{rr} = 0.1 \cdot I_{R}, R_{L} = 100 \Omega$				

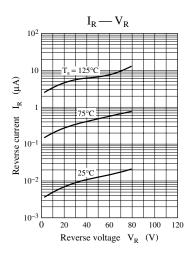
Note) 1. Rated input/output frequency: 100 MHz

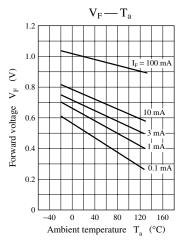
2. *: t_{rr} measuring circuit

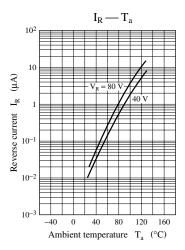


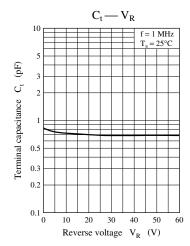
Note) The part number in the parenthesis shows conventional part number.

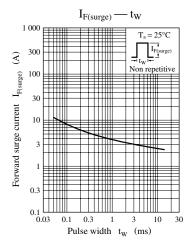












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