MA3X157A (MA157A)

Silicon epitaxial planar type

For switching circuits

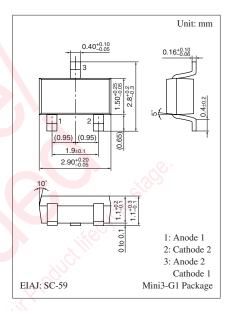
■ Features

- High switching speed
- Small terminal capacitance C_t
- Both chips have even characteristics

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

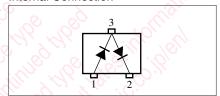
Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	80	V
Maximum peak reverse voltage		V _{RM}	80	V
Forward current	Single	I_{F}	100	mA
	Series		65	
Peak forward	Single	I_{FM}	225	mA
current	Series		145	٠,
Non-repetitive peak	Single	I_{FSM}	500	mA
forward surge current*	Series		325	40/103
Junction temperature		T _j	150	G°C (c
Storage temperature		T _{stg}	-55 to +150	°C

Note) *: t = 1 s



Marking Symbol: MS

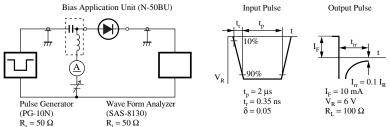
Internal Connection



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

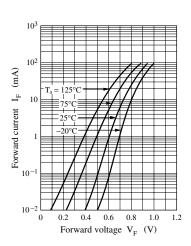
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 100 \text{ mA}$	0.7		1.2	V
Reverse voltage	V_R	$I_R = 100 \mu A$	80			V
Reverse current	I_R	V _R = 75 V			100	nA
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$			2	pF
Reverse recovery time *	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
Mis		$I_{rr} = 0.1 I_{R}, R_{L} = 100 \Omega$				

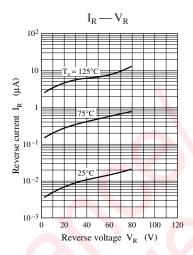
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. Absolute frequency of input and output is 100 MHz.
 - 3. *: t_{rr} measurement circuit

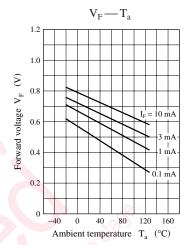


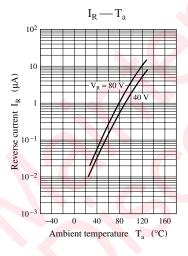
Note) The part number in the parenthesis shows conventional part number.

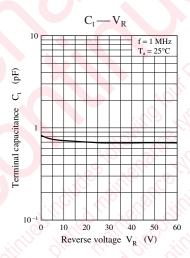
Panasonic











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