MA3S137 (MA137)

Silicon epitaxial planar type

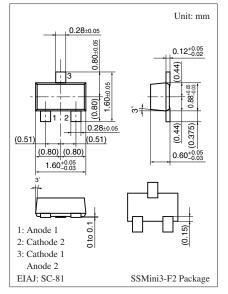
For high-speed switching circuits

Features

- Two isolated elements contained in one package, allowing highdensity mounting
- Two diodes are connected in series in the package

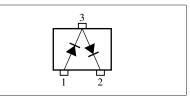
Parameter		Symbol	Rating	Unit
Reverse voltage		V _R	80	V
Maximum peak reverse voltage		V _{RM}	80	V
Forward current	Single	I _F	100	mA
	Series		65	
Peak forward	Single	I _{FM}	225	mA
current	Series		145	
Non-repetitive peak	Single	I _{FSM}	500	mA
forward surge current *	Series		325	
Junction temperature		Tj	150	°C
Storage temperature		T _{stg}	-55 to +150	°C

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



Marking Symbol: MS

Internal Connection



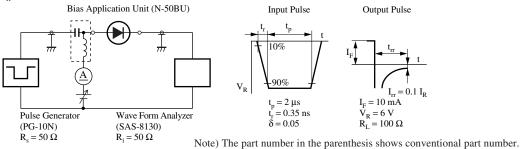
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

	a					
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	I _F = 100 mA			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	Ct	$V_R = 0 V, f = 1 MHz$			2	pF
Reverse recovery time *	t _{rr}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			3	ns
		$I_{rr} = 0.1 I_R$, $R_L = 100 \Omega$				

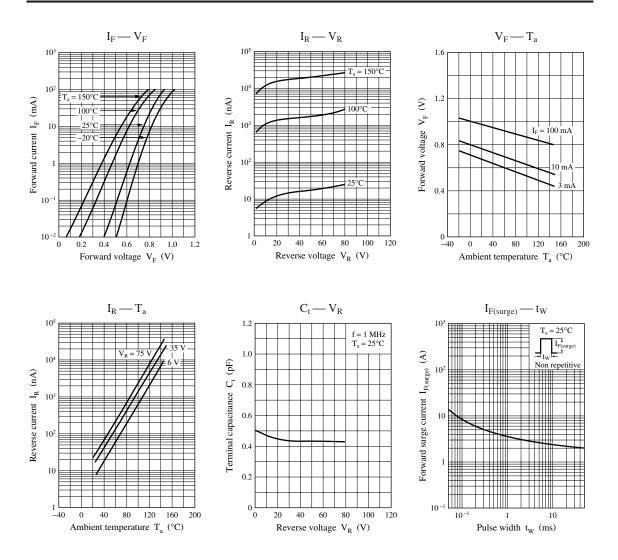
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 100 MHz.

3. *: t_{rr} measurement circuit



Panasonic



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