MA3S137 (MA137)

Silicon epitaxial planar type

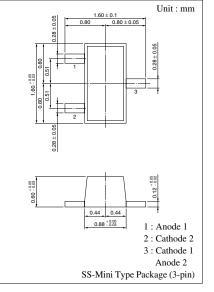
For high-speed switching circuits

Features

- Super-small SS-mini type package contained two elements, allowing high-density mounting
- Two diodes are connected in series in the package

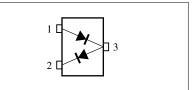
Parameter		Symbol	Rating	Unit	
Reverse voltage (DC)		V _R	80	V	
Peak reverse voltage		V _{RM}	80	v	
Forward current	Single	I _F	100	mA	
(DC)	Series		65		
Peak forward	Single	I _{FM}	225	mA	
current	Series		145		
Non-repetitive peak	Single	I _{FSM}	500	mA	
forward surge current*	Series		325		
Junction 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



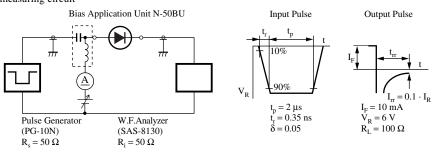
Note) * : t = 1 s

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

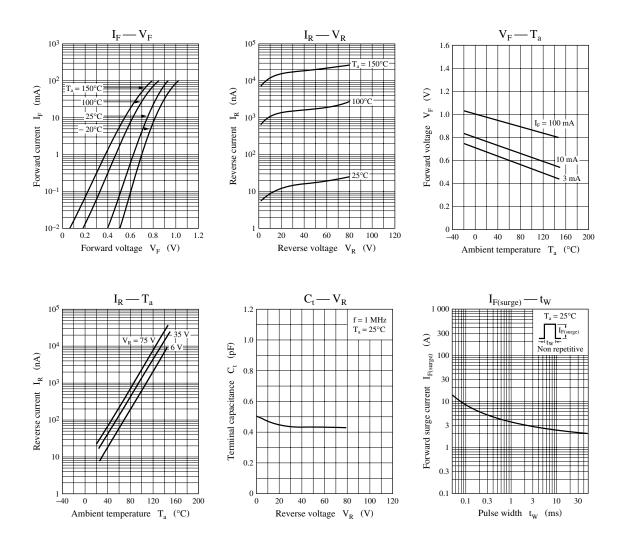
	u					
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	V _R = 75 V			100	nA
Forward voltage (DC)	V _F	I _F = 100 mA			1.2	V
Reverse voltage (DC)	V _R	$I_R = 100 \ \mu A$	80			V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$			2	pF
Reverse recovery time*	t _{rr}	$I_F = 10 \text{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

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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