

MA3S137 (MA137)

Silicon epitaxial planar type

For high-speed switching circuits

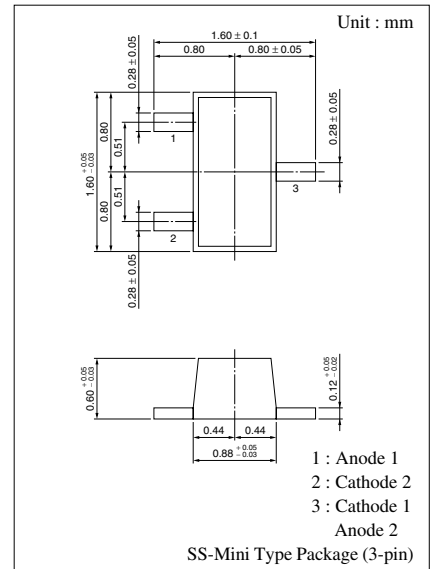
■ Features

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

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

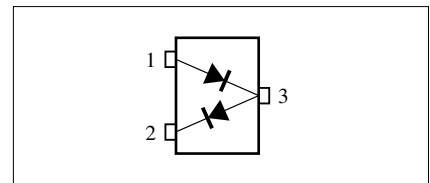
Parameter	Symbol	Rating	Unit	
Reverse voltage (DC)	V_R	80	V	
Peak reverse voltage	V_{RM}	80	V	
Forward current (DC)	Single	I_F	100	mA
	Series		65	
Peak forward current	Single	I_{FM}	225	mA
	Series		145	
Non-repetitive peak forward surge current*	Single	I_{FSM}	500	mA
	Series		325	
Junction temperature	T_j	150	$^\circ\text{C}$	
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$	

Note) * : $t = 1\text{ s}$



Marking Symbol: MS

Internal Connection

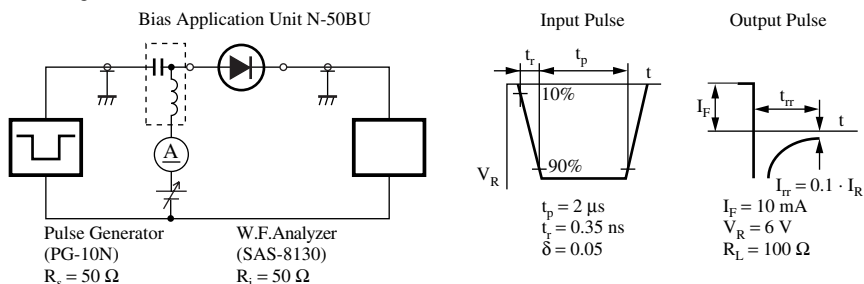


■ Electrical Characteristics $T_a = 25^\circ\text{C}$

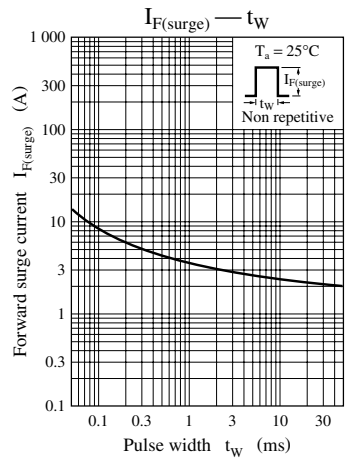
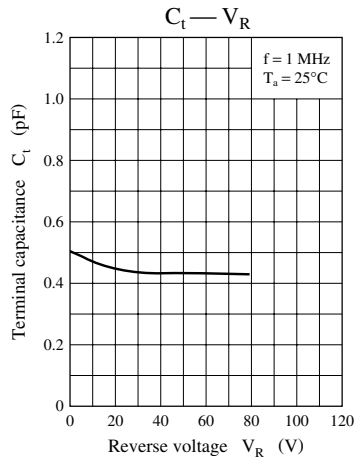
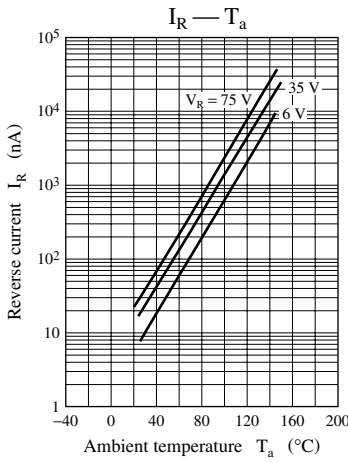
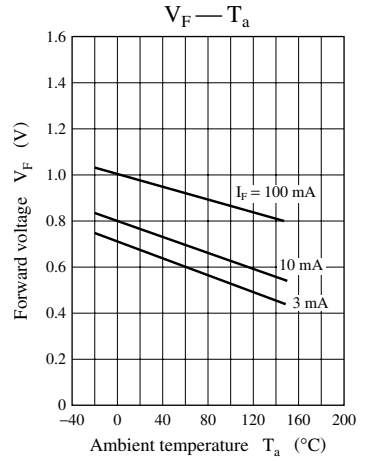
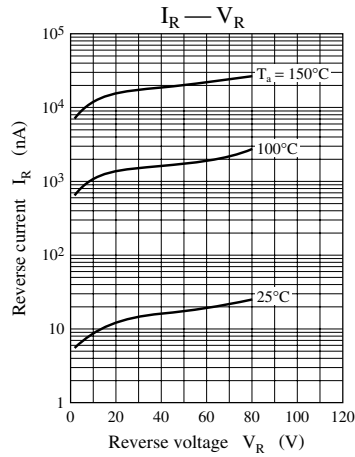
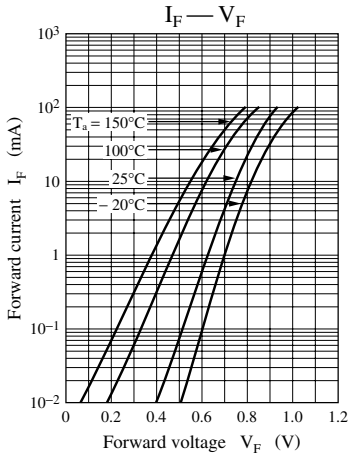
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 75\text{ V}$			100	nA
Forward voltage (DC)	V_F	$I_F = 100\text{ mA}$			1.2	V
Reverse voltage (DC)	V_R	$I_R = 100\ \mu\text{A}$	80			V
Terminal capacitance	C_t	$V_R = 0\text{ V}, f = 1\text{ MHz}$			2	pF
Reverse recovery time*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

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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