

MA3J143, MA3J143A (MA143, MA143A)

Silicon epitaxial planar type

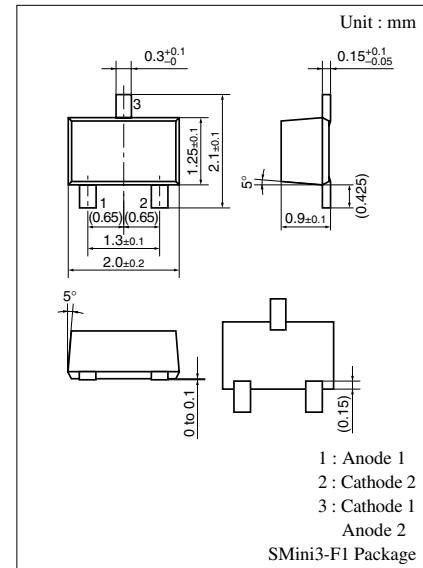
For switching circuits

■ Features

- Small S-mini type package contained two elements, allowing high-density mounting
- Two diodes are connected in series in the package

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

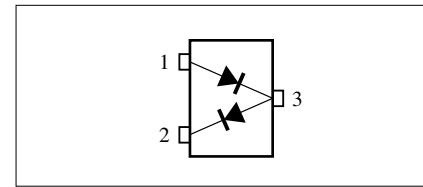
Parameter	Symbol	Rating	Unit
Reverse current (DC)	V_R	40	V
		80	
Peak reverse voltage	V_{RM}	40	V
		80	
Forward current (DC)	I_F	100	mA
		65	
Peak forward current	I_{FM}	200	mA
		130	
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$



Marking Symbol

- MA3J143 : MC
- MA3J143A : MP

Internal Connection



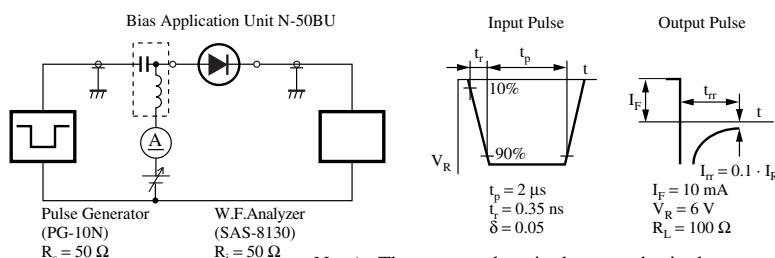
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 40\text{ V}$			100	nA
		$V_R = 80\text{ V}$			100	
Forward voltage (DC)	V_F	$I_F = 100\text{ mA}$			1.2	V
			40			
Reverse voltage (DC)	V_R	$I_R = 100\text{ }\mu\text{A}$				V
			80			
Terminal capacitance	C_{t1}^{*1}	$V_R = 0\text{ V}, f = 1\text{ MHz}$			5.5	pF
	C_{t2}^{*2}				3.0	pF
Reverse recovery time ^{*3}	t_{rr1}^{*1}	$I_F = 10\text{ mA}, V_R = 6\text{ V}$			150	ns
	t_{rr2}^{*2}				9	ns

Note) *1 : Between pins 2 and 3

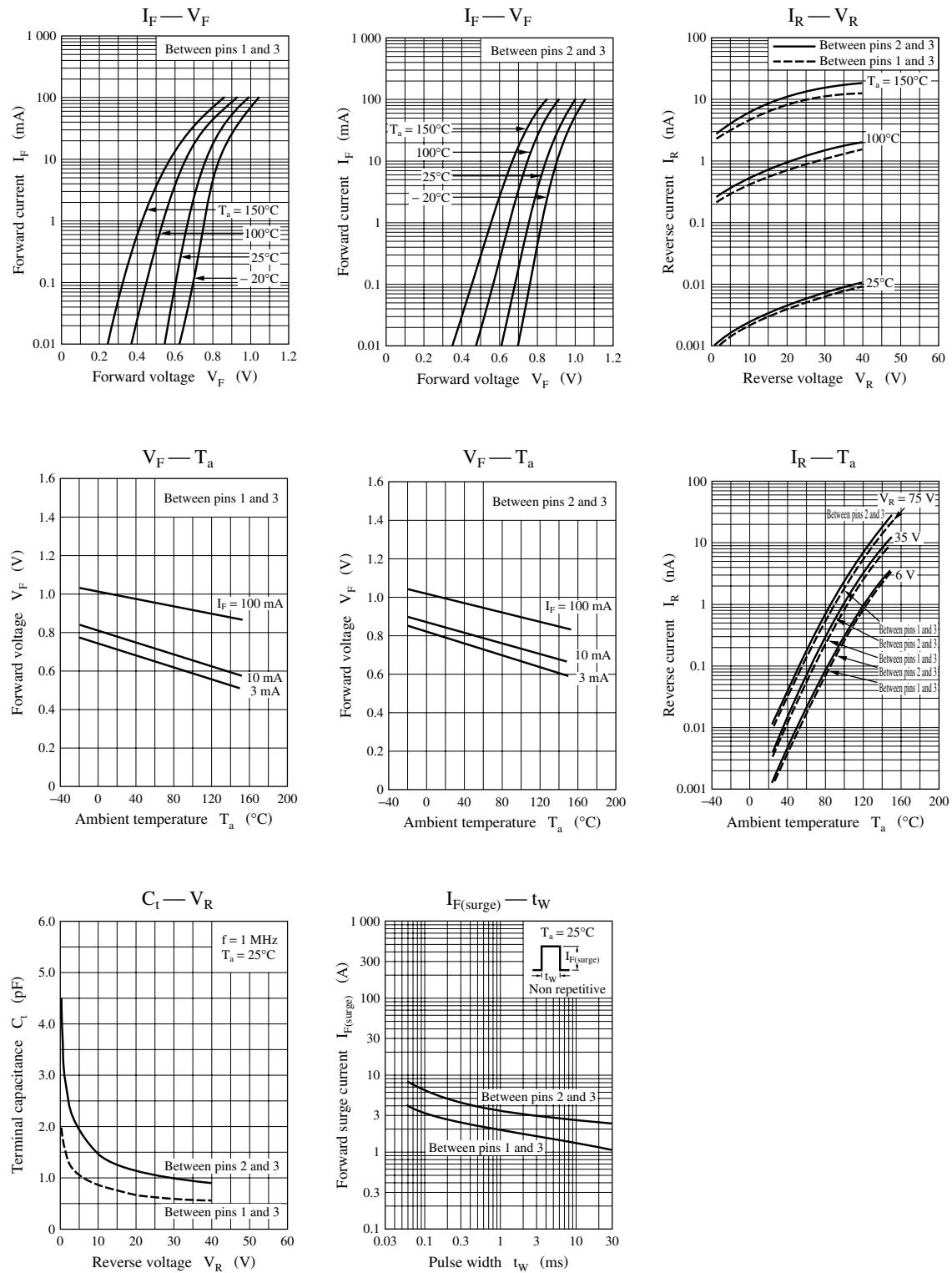
*2 : Between pins 1 and 3

*3 : t_{rr} measuring circuit

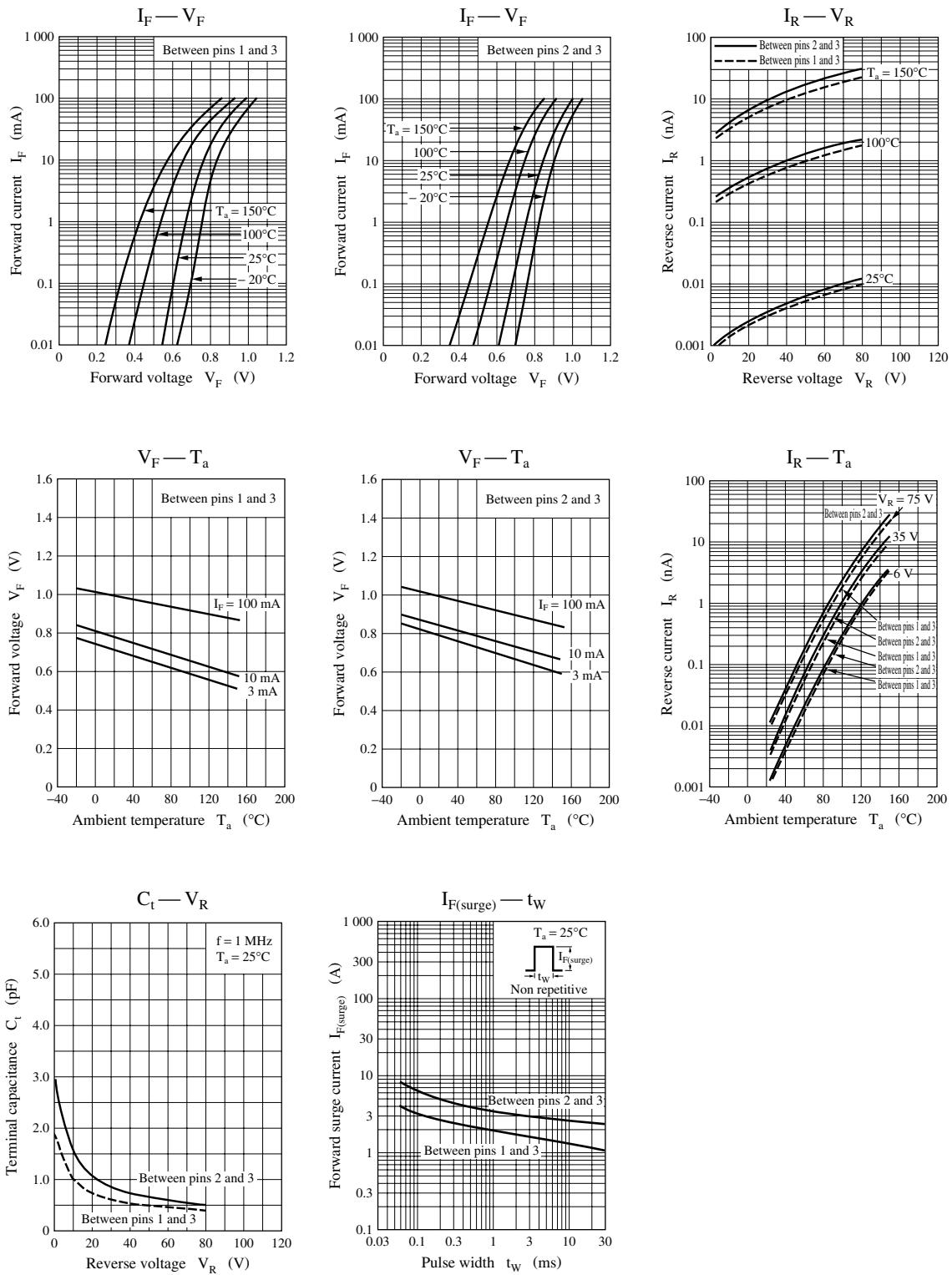


Note) The part numbers in the parenthesis show conventional part number.

Characteristics charts of MA3J143



Characteristics charts of MA3J143A



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