

MA3J143 (MA143), MA3J143A (MA143A)

Silicon epitaxial planar type

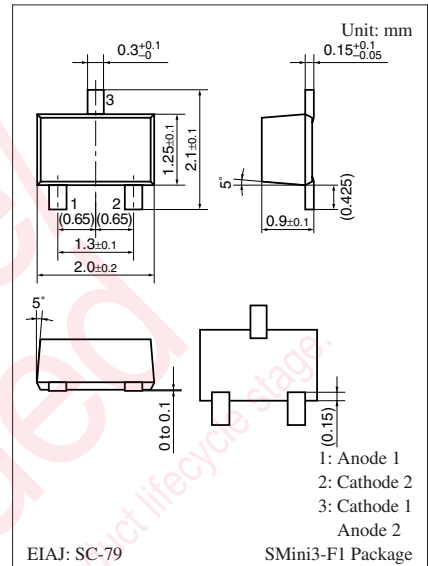
For switching circuits

■ Features

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

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

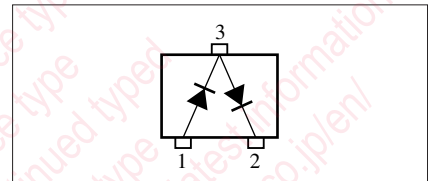
Parameter	Symbol	Rating	Unit	
Reverse voltage	MA3J143	V_R	40	V
	MA3J143A		80	
Maximum peak reverse voltage	MA3J143	V_{RM}	40	V
	MA3J143A		80	
Forward current	Single	I_F	100	mA
	Series		65	
Peak forward current	Single	I_{FM}	200	mA
	Series		130	
Junction temperature	T_j	150	$^\circ\text{C}$	
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$	



Marking Symbol:

- MA3J143: MC
- MA3J143A: MP

Internal Connection



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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage	MA3J143	$I_R = 100 \mu\text{A}$	40			V
	MA3J143A		80			
Reverse current	MA3J143	$V_R = 40 \text{ V}$			100	nA
	MA3J143A	$V_R = 75 \text{ V}$			100	
Terminal capacitance	C_{t1}^{*1}	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$			5.5	pF
	C_{t2}^{*2}				3.0	
Reverse recovery time *3	t_{rr1}^{*1}	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$		150		ns
	t_{rr2}^{*2}	$I_{rr} = 0.1 I_R, R_L = 100 \Omega$		9		

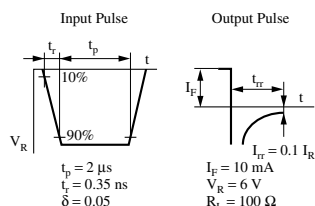
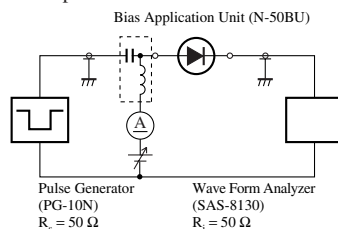
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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

3. *1: Between pins 2 and 3

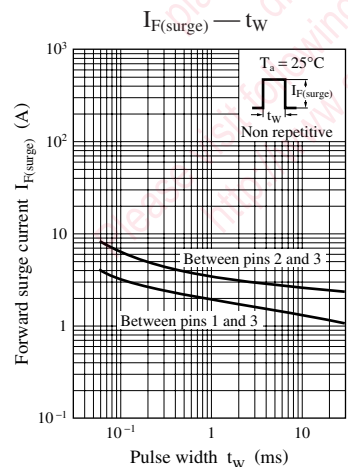
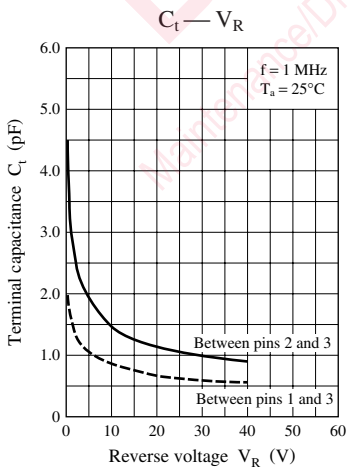
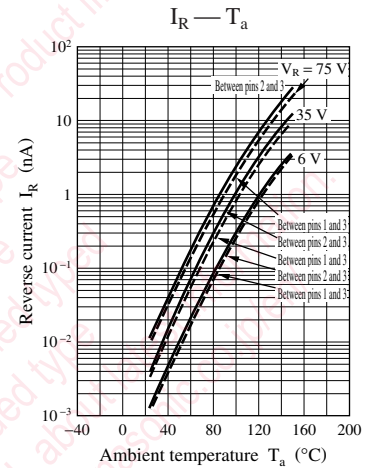
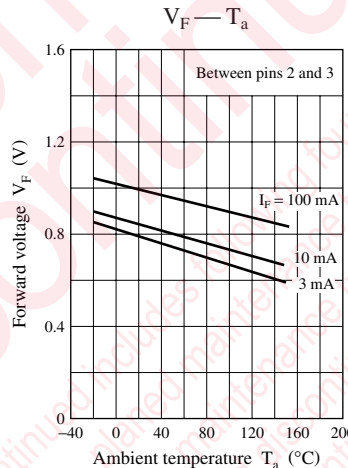
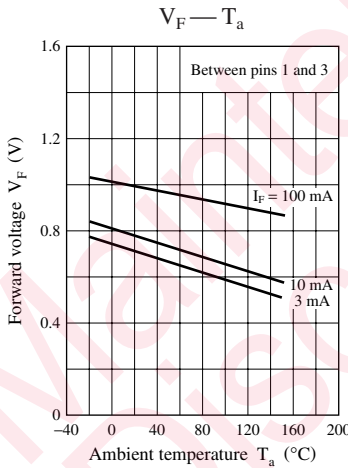
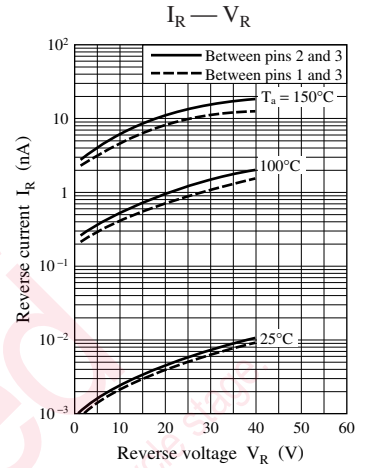
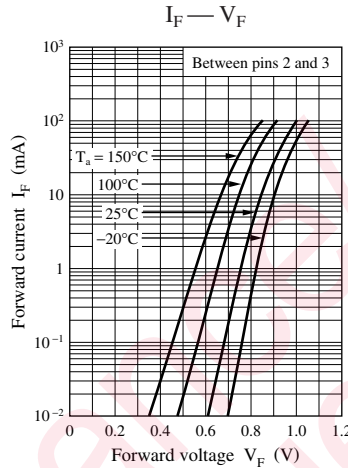
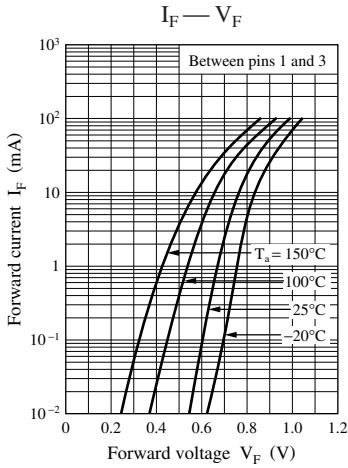
*2: Between pins 1 and 3

*3: t_{rr} measurement circuit

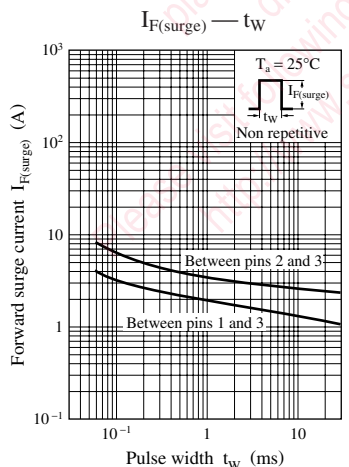
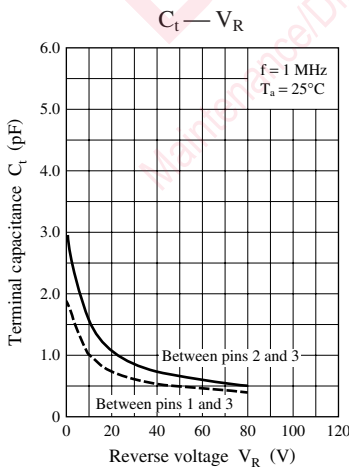
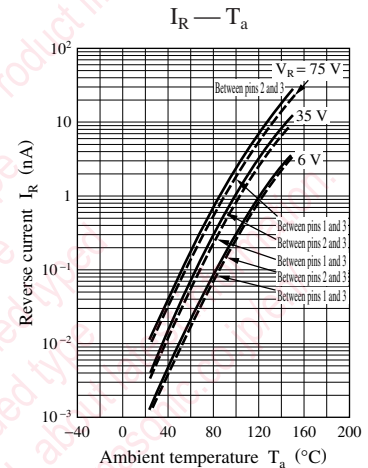
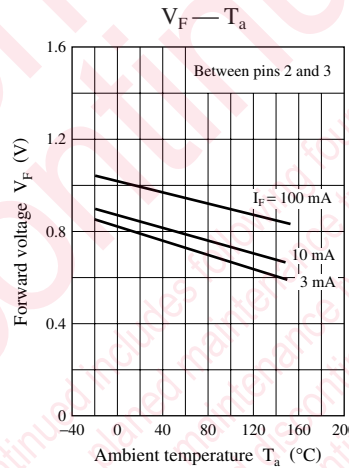
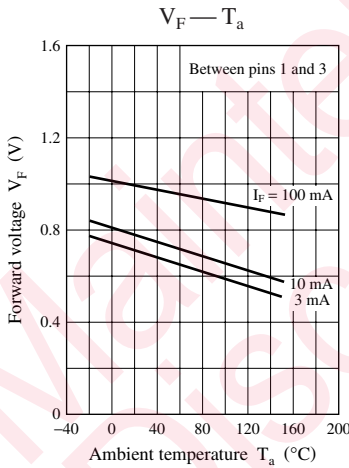
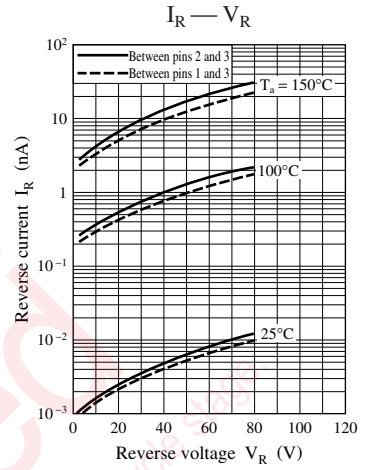
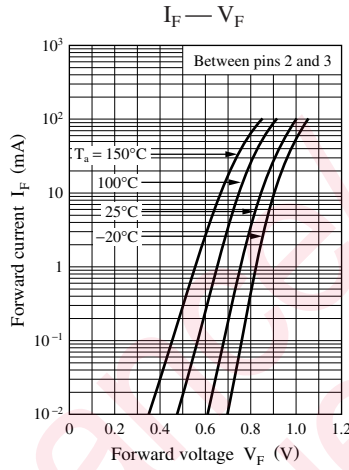
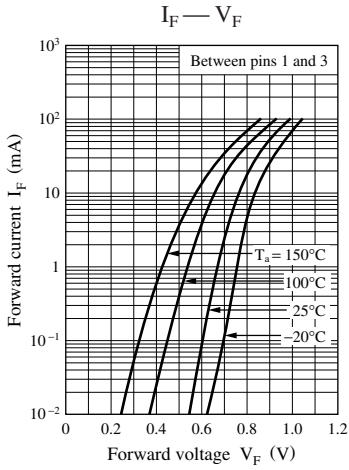


Note) The part numbers in the parenthesis show conventional part number.

Characteristics charts of MA3J143



Characteristics charts of MA3J143A



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