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MA3J143 (MA143), **MA3J143A** (MA143A)

Silicon epitaxial planar type

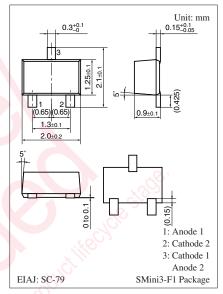
For switching circuits

■ Features

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

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit	
Reverse voltage	MA3J143	V_R	40	V	
	MA3J143A		80		
Maximum peak	MA3J143	V _{RM}	40	V	
reverse voltage	MA3J143A		80		
Forward current	Single	I_{F}	100	mA	
	Series		65		
Peak forward	Single	I_{FM}	200	mA	
current	Series		130	j,	
Junction temperature		T _j	150	°C/O	
Storage temperature		T_{stg}	-55 to +150	°C	
				VOIS KE	

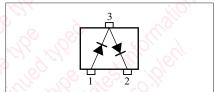


Marking Symbol:

• MA3J143: MC

• MA3J143A: MP

Internal Connection

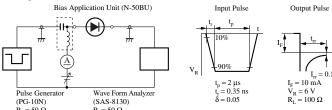


■ Electrical Characteristics T_a = 25°C ± 3°C

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage		V_{F}	$I_F = 100 \text{ mA}$), (57	1.2	V
Reverse voltage	MA3J143	V_R	$I_R = 100 \ \mu A$	40			V
	MA3J143A	3	9/0° 6/1° 00° 00°	80			
Reverse current	MA3J143	I_R	$V_R = 40 \text{ V}$			100	nA
	MA3J143A		V _R = 75 V			100	
Terminal capacitance	3,	C _{t1} *1	$V_R = 0 V, f = 1 MHz$			5.5	pF
		C _{t2} *2	1/3 //4			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		

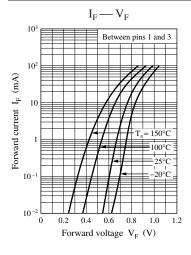
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

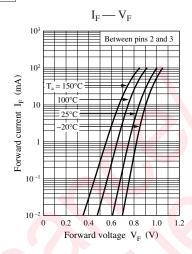
- 2. Absolute frequency of input and output is 100 MHz.
- 3. *1: Between pins 2 and 3
 - *2: Between pins 1 and 3
 - *3: t_{rr} measurement circuit

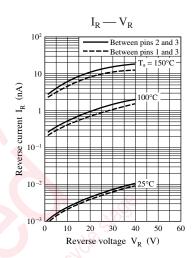


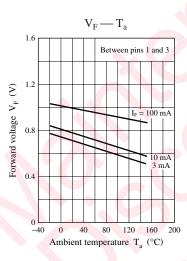
Note) The part numbers in the parenthesis show conventional part number.

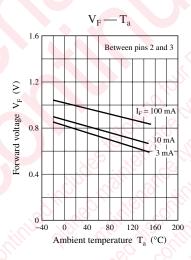
Characteristics charts of MA3J143

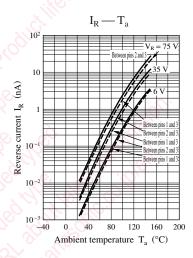


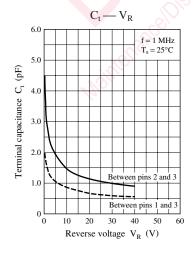


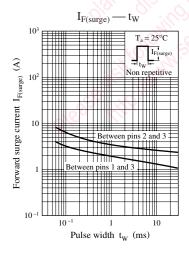








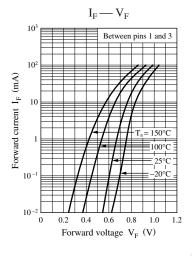


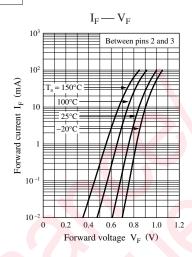


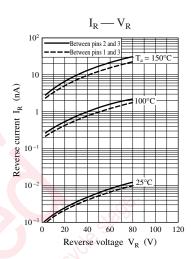
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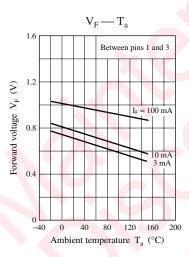
Panasonic

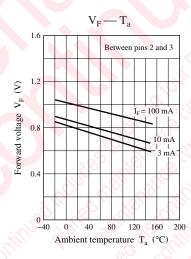
Characteristics charts of MA3J143A

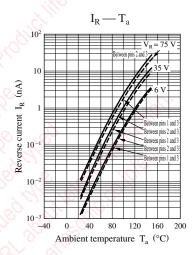


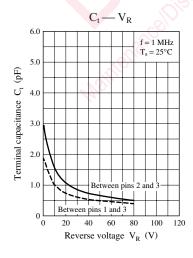


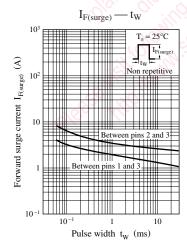












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