MA3J143, MA3J143A (MA143, MA143A)

Silicon epitaxial planar type

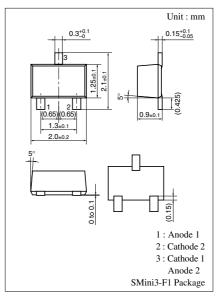
For switching circuits

■ Features

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

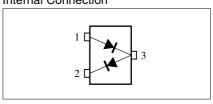
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit	
Reverse current	MA3J143	V_R	40	V	
(DC)	MA3J143A		80		
Peak reverse	MA3J143	V_{RM}	40	V	
voltage	MA3J143A		80		
Forward current	Single	I_F	100	mA	
(DC)	Series		65		
Peak forward	Single	I_{FM}	200	mA	
current	Series		130		
Junction temperature		T _j	150	°C	
Storage temperature		T_{stg}	-55 to +150	°C	



Marking Symbol

• MA3J143 : MC • MA3J143A : MP Internal Connection

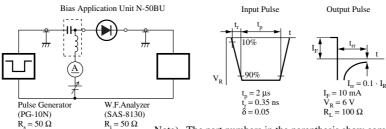


■ Electrical Characteristics $T_a = 25$ °C

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	MA3J143	I_R	$V_R = 40 \text{ V}$			100	nA
	MA3J143A		$V_R = 80 \text{ V}$			100	
Forward voltage (DC)	•	V_{F}	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage (DC)	MA3J143	V_R	$I_R = 100 \mu A$	40			V
	MA3J143A			80			
Terminal capacitance		C_{t1}^{*1}	$V_R = 0 V, f = 1 MHz$			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	$I_{rr} = 0.1 \cdot I_R, R_L = 100 \ \Omega$		9		ns

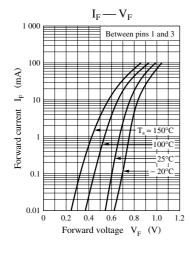
Note) *1: Between pins 2 and 3

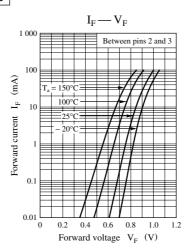
- *2: Between pins 1 and 3
- $*3: t_{rr}$ measuring circuit

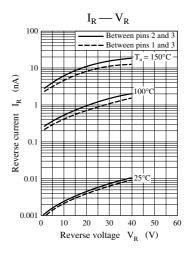


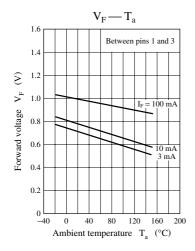
Note) The part numbers in the parenthesis show conventional part number.

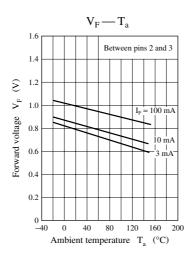
Characteristics charts of MA3J143

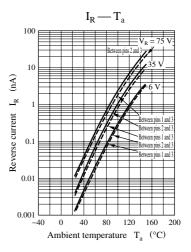


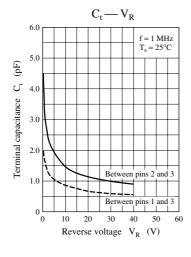


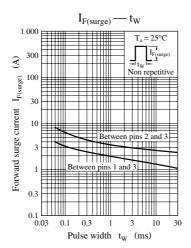






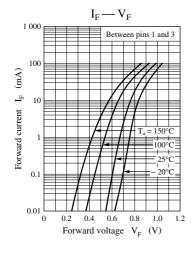


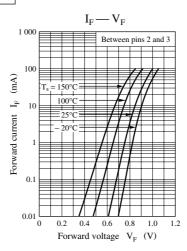


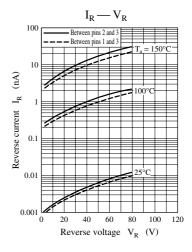


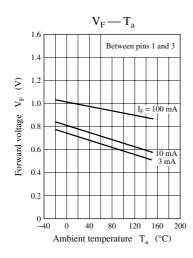
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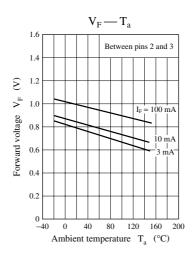
Characteristics charts of MA3J143A

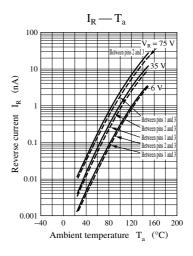


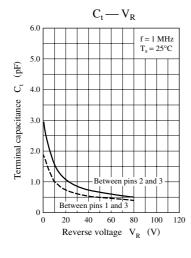


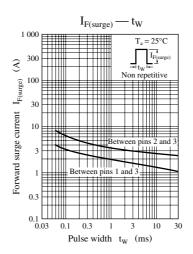












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