

MA3J143, MA3J143A

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

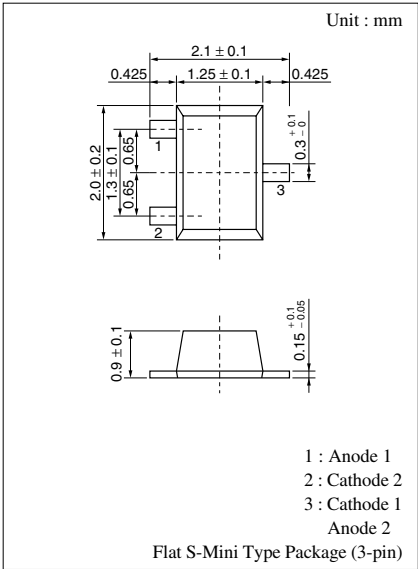
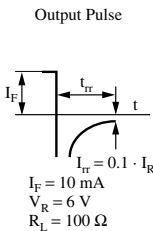
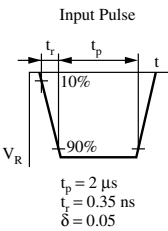
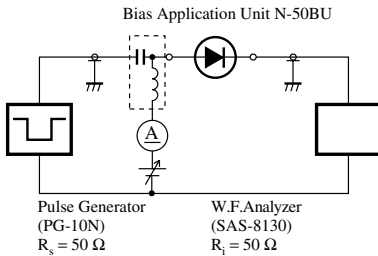
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	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	$I_R = 100\text{ }\mu\text{A}$	40		V
	MA3J143A		80			
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}	$I_{rr} = 0.1 \cdot I_R, R_L = 100\text{ }\Omega$		9		

Note) *1 : Between pins 2 and 3

*2 : Between pins 1 and 3

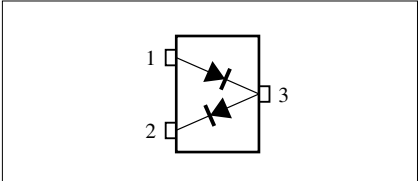
*3 : t_{rr} measuring circuit



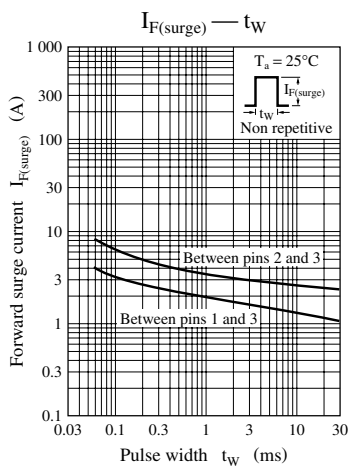
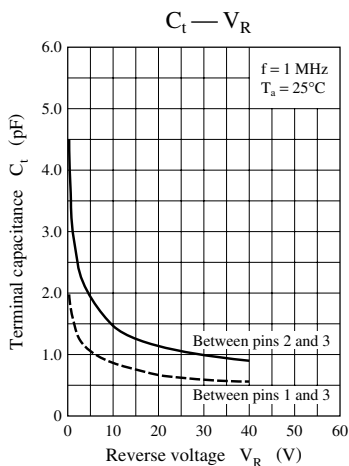
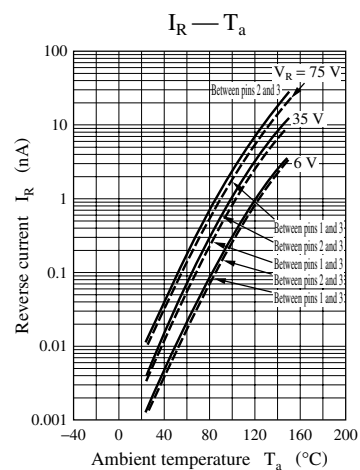
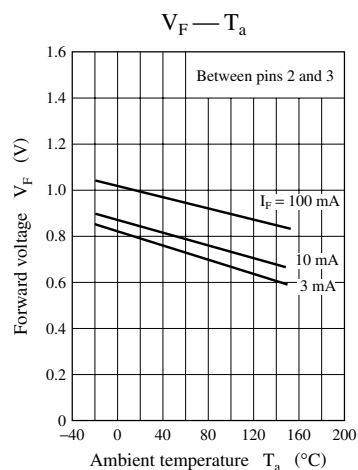
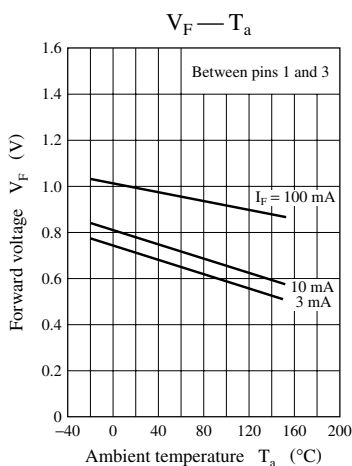
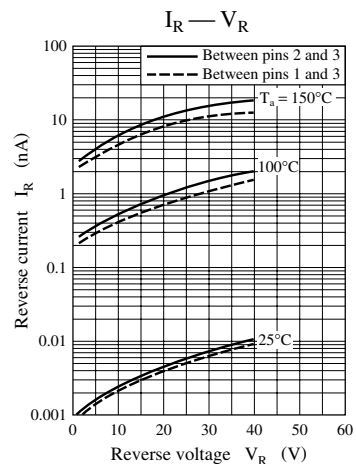
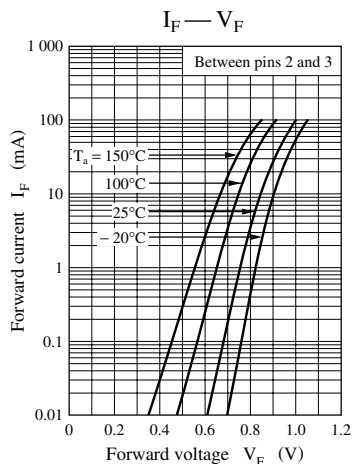
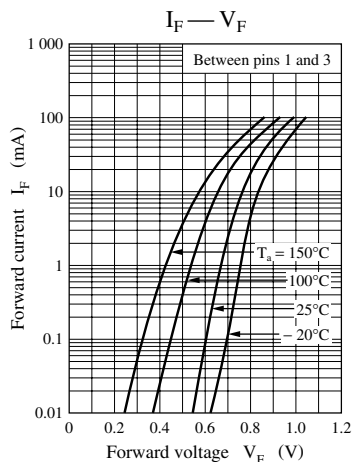
Marking Symbol

• MA3J143 : MC • MA3J143A : MP

Internal Connection



Characteristics charts of MA3J143



Characteristics charts of MA3J143A

