MA2C719 (MA719)

Silicon epitaxial planar type

For high frequency rectification

■ Features

- $I_{F(AV)} = 500$ mA rectification is possible
- High-density mounting (5 mm pitch insertion) is possible
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}
- Low forward voltage V_F and good rectification efficiency

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	40	V
Repetitive peak reverse voltage	V _{RRM}	40	V
Forward current (Average)	I _{F(AV)}	500	mA
Peak forward current	I_{FM}	1	A
Non-repetitive peak forward surge current *	I _{FSM}	3	A
Junction temperature	T _j	125	°C
Storage temperature	T_{stg}	-55 to +150	°C

Note) *: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

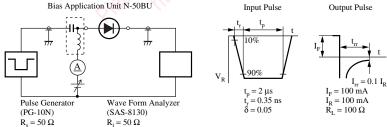
Unit: mm Cathode 2nd Band : Silver 1st Band : Silver 1: Cathode 2: Anode DO-34-A2

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	$V_{\rm F}$	$I_F = 500 \text{ mA}$	00,	0/1	0.55	V
Reverse current	I_R	$V_R = 35 \text{ V}$	2.	57	100	μΑ
Terminal capacitance	C_{t}	$V_R = 0 V, f = 1 MHz$	0,0,	60		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$	1	5		ns
		$I_{rr} = 0.1 I_{R}, R_{L} = 100 \Omega$				

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

- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 400 GHz.
- 4.*: t_{rr} measurement circuit

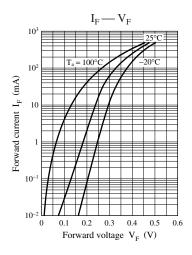


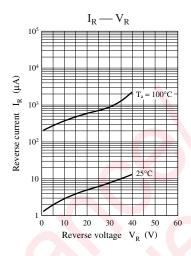
Cathode Mark

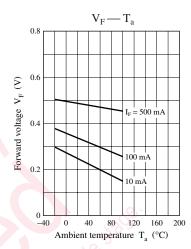
	1st Band	2nd Band		
Color	Silver	Silver		

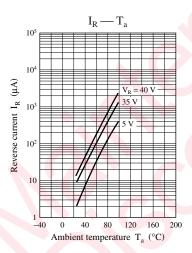
Note) The part number in the parenthesis shows conventional part number.

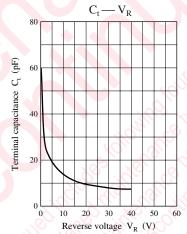
Panasonic

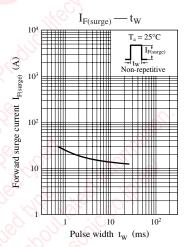












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