MA3X715 (MA715)

Silicon epitaxial planar type

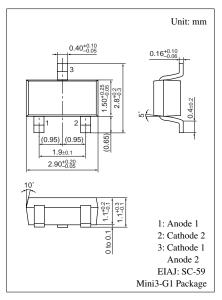
For high frequency rectification

■ Features

- Low forward voltage V_F
- Optimum for high frequency rectification because of its short reverse recovery time (t_{rr})
- Mini type 3-pin package

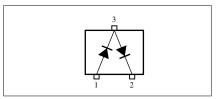
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V_R	30	V
Peak reverse voltage		V_{RM}	30	V
Forward current (DC)	Single	I_F	30	mA
	Series		20	
Peak forward	Single	I_{FM}	150	mA
current	Series		110	
Junction temperature		T _j	125	°C
Storage temperature		T_{stg}	-55 to +125	°C



Marking Symbol: M2Y

Internal Connection



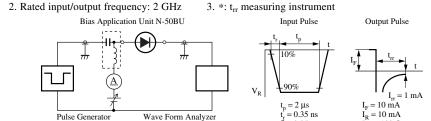
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

(PG-10N)

 $R_s = 50 \Omega$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 30 \text{ V}$			30	μΑ
Forward voltage (DC)	V _{F1}	$I_F = 1 \text{ mA}$			0.3	V
	V _{F2}	$I_F = 30 \text{ mA}$			1.0	
Terminal capacitance	C _t	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$		1.0		ns
		$I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$				
Detection efficiency	η	$V_{in} = 3 V_{(peak)}$, $f = 30 MHz$		65		%
		$R_L = 3.9 \text{ k}\Omega, C_L = 10 \text{ pF}$				

Note) 1. 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.



(SAS-8130)

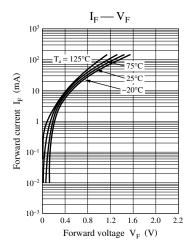
 $R_i = 50 \Omega$

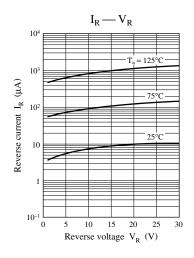
 $R_{I} = 100 \Omega$ Note) The part number in the parenthesis shows conventional part number.

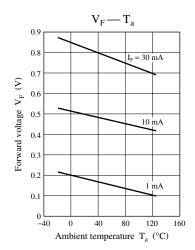
1

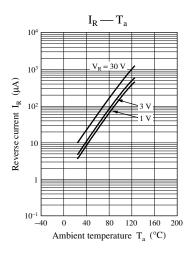
 $\delta = 0.05$

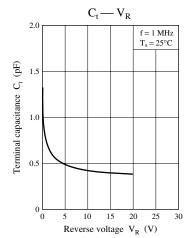
MA3X715 Panasonic

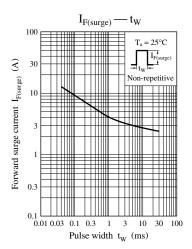












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