MA3X715 (MA715)

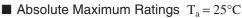
Silicon epitaxial planar type

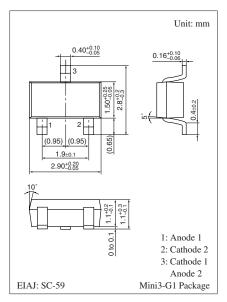
For high frequency rectification

Features

- Low forward voltage V_F
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}

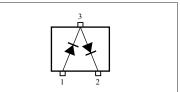
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Parameter		Symbol	Rating	Unit
Reverse voltage		V _R	30	V
Maximum peak reve	rse voltage	V _{RM}	30	V
Forward current	Single	I_F	30	mA
	Series		20	
Peak forward	Single	I _{FM}	150	mA
current	Series		110	
Junction temperature		Tj	125	°C
Storage temperature		T _{stg}	-55 to +125	°C





Marking Symbol: M2Y

Internal Connection

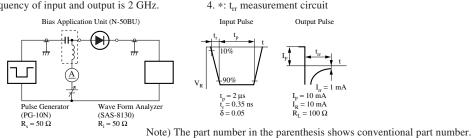


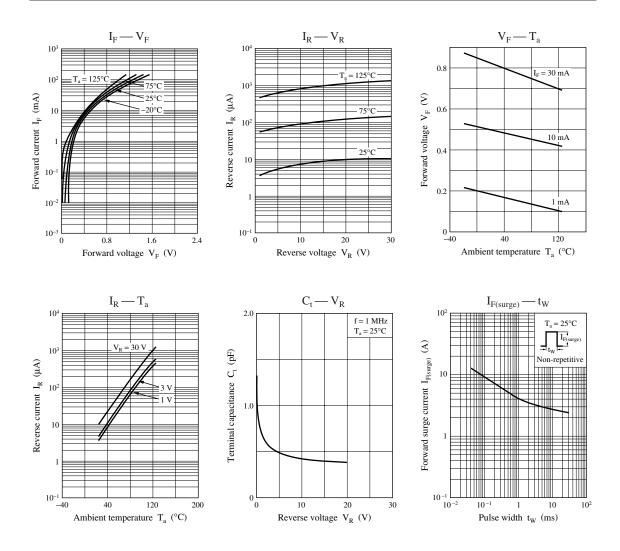
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	$I_F = 1 \text{ mA}$			0.3	V
	V _{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I _R	V _R = 30 V			30	μΑ
Terminal capacitance	Ct	$V_{R} = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$ $I_{rr} = 1 \text{ mA}, R_I = 100 \Omega$		1.0		ns
Detection efficiency	η	$V_{IN} = 3 V_{(peak)}, f = 30 \text{ MHz}$ $R_{I} = 3.9 \text{ k}\Omega, C_{I} = 10 \text{ pF}$		65		%

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

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 2 GHz.





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