MA3X715 (MA715)

Silicon epitaxial planar type

For high frequency rectification

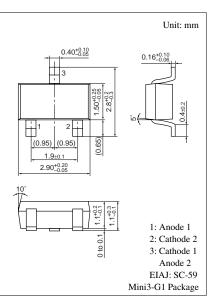
Features

- \bullet Low forward voltage $V_{\rm F}$
- \bullet Optimum for high frequency rectification because of its short reverse recovery time $(t_{\rm rr})$
- Mini type 3-pin package

Absolute Maximum Hatings $T_a = 25$ C								
Parameter		Symbol	Rating	Unit				
Reverse voltage (DC)		V _R	30	V				
Peak reverse voltage		V _{RM}	30	V				
Forward current (DC)	Single	$I_{\rm F}$	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				

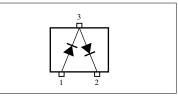


Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$



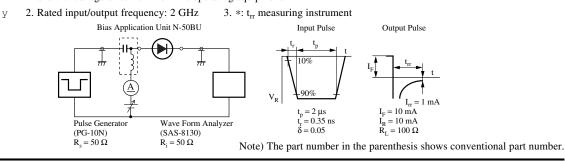
Marking Symbol: M2Y

Internal Connection

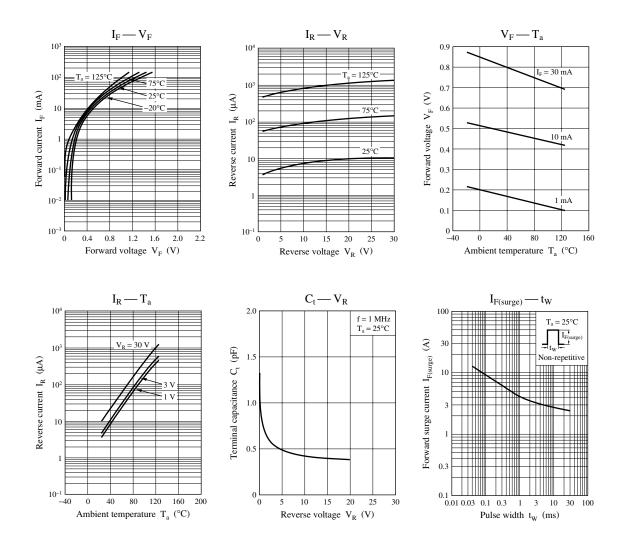


Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	$V_R = 30 V$			30	μΑ
Forward voltage (DC)	V _{F1}	$I_F = 1 \text{ mA}$			0.3	V
	V _{F2}	$I_F = 30 \text{ mA}$			1.0	
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$		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.



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