MA3J742 (MA742)

Silicon epitaxial planar type

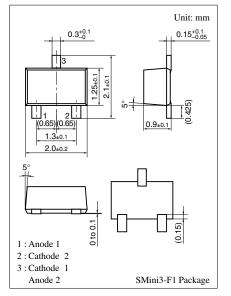
For switching

Features

- Two MA3X716 (MA716) is contained in one package (series connection)
- \bullet Low forward voltage $V_{\rm F}$, optimum for low voltage rectification
- Optimum for high frequency rectification because of its short reverse recovery time (t_{rr})
- S-Mini type 3-pin package

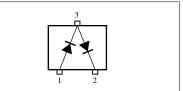
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Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V _R	30	V
Peak reverse voltage		V _{RM}	30	V
Forward current (DC)	Single	I _F	30	mA
	Series *		20	
Peak forward current	Single	I _{FM}	150	mA
	Series *		110	
Junction temperature		Tj	125	°C
Storage temperature		T _{stg}	-55 to +125	°C
Storage temperatur		- stg	00 10 1120	

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



Marking Symbol: M1U

Internal Connection

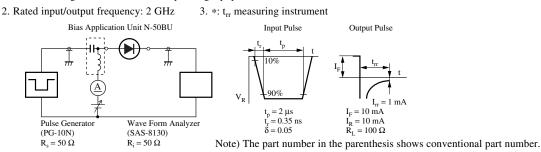


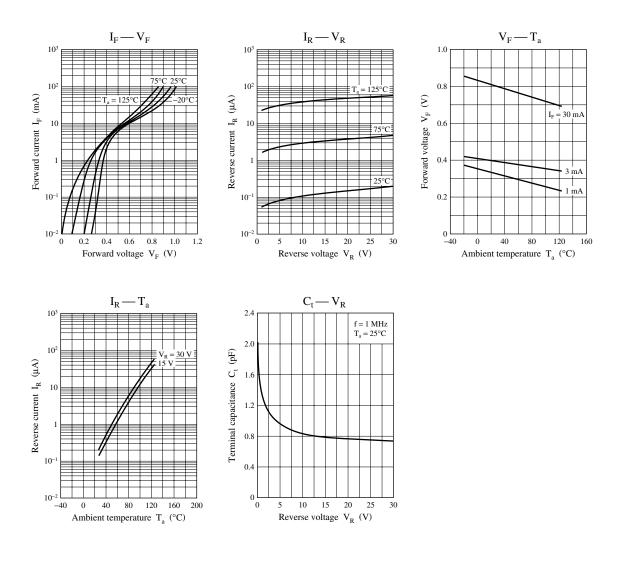
Note)	*:	Value	per	chip
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Electrical Characteristics $T_a = 25^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	IR	$V_R = 30 V$			1	μΑ
Forward voltage (DC)	V _{F1}	$I_F = 1 \text{ mA}$			0.4	V
	V _{F2}	$I_F = 30 \text{ mA}$			1	
Terminal capacitance	Ct	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t _{rr}	$I_{\rm F} = I_{\rm R} = 10 \text{ mA}$ $I_{\rm rr} = 1 \text{ mA}, $		1		ns
Detection efficiency	h	$V_{in} = 3 V_{(peak)}, f = 30 MHz$ R _L = 3.9 kΩ, C _L = 10 pF		65		%

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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