MA3X717D (MA717WA), MA3X717E (MA717WK)

Silicon epitaxial planar type

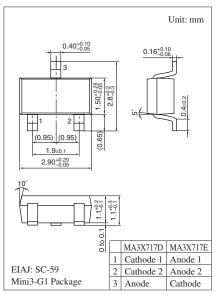
For switching

■ Features

- Two MA3X717 (MA717) is contained in one package
- Forward voltage V_F, optimum for low voltage rectification
- Low V_F type of MA3X704D (MA704WA), MA3X704E (MA704WK)
- Optimum for high frequency rectification because of its short reverse recovery time (t_{rr})

■ Absolute Maximum Ratings $T_a = 25$ °C

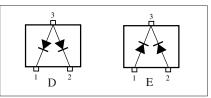
Parameter		Symbol	Rating	Unit
Reverse voltage		V_R	30	V
Maximum peak reverse voltage		V_{RM}	30	V
Forward current	Single	I_{F}	30	mA
	Double		20	
Peak forward current	Single	I_{FM}	150	mA
	Double		110	
Junction temperature		T _j	125	°C
Storage temperature		T_{stg}	-55 to +125	°C



Marking Symbol

• MA3X717D: M3E • MA3X717E: M3D

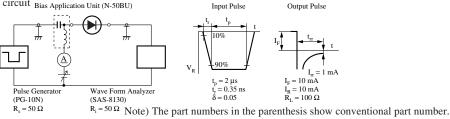
Internal Connection

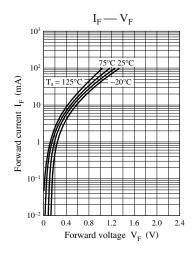


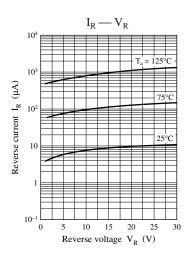
■ Electrical Characteristics $T_a=25$ °C ± 3 °C

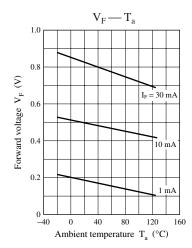
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$			0.3	V
	V_{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I_R	$V_R = 30 \text{ V}$			30	μΑ
Terminal capacitance	C _t	$V_R = 1 V, f = 1 MHz$		1.5		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 10 \text{ mA}$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

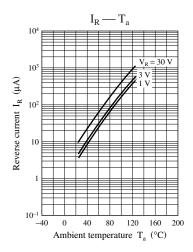
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. Absolute frequency of input and output is 2 GHz.
 - 4. *: t_{rr} measurement circuit _{Bias Application Unit (N-50BU)}

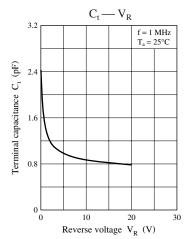












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