MA3X786D, MA3X786E (MA786WA, MA786WK)

Silicon epitaxial planar type

For super high speed switching

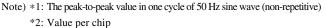
For small current rectification

Features

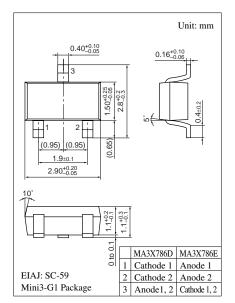
- Two MA3X786 (MA786) is contained in one package
- $I_{F(AV)} = 100$ mA rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time (t_{rr})
- \bullet Low forward voltage V_{F} and good rectification efficiency
- Mini type 3-pin package

Absolute Maximum Hatings $T_a = 25$ C								
Parameter		Symbol	Rating	Unit				
Reverse voltage (DC)		V _R	30	V				
Repetitive peak reverse-voltage		V _{RRM}	30	V				
Peak forward	Single	I _{FM}	300	mA				
current	Double *2		200					
Average forward	Single	I _{F(AV)}	100	mA				
current	Double *2		70					
Non-repetitive peak forward- surge-current *1		I _{FSM}	1	А				
Junction temperature		Tj	125	°C				
Storage temperature		T _{stg}	-55 to +125	°C				

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



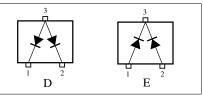
Electrical Characteristics $T_a = 25^{\circ}C$



Marking Symbol

• MA3X786D: M3Y • MA3X786E: M3Z

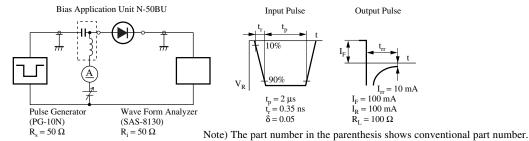
Internal Connection



Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	$V_R = 30 V$			15	μΑ
Forward voltage (DC)	V _F	$I_F = 100 \text{ mA}$			0.55	V
Terminal capacitance	Ct	$V_R = 0 V, f = 1 MHz$		20		pF
Reverse recovery time *	t _{rr}	$I_F = I_R = 100 \text{ mA}$		2		ns
		$I_{\rm rr} = 10 \text{ mA}, R_{\rm L} = 100 \Omega$				

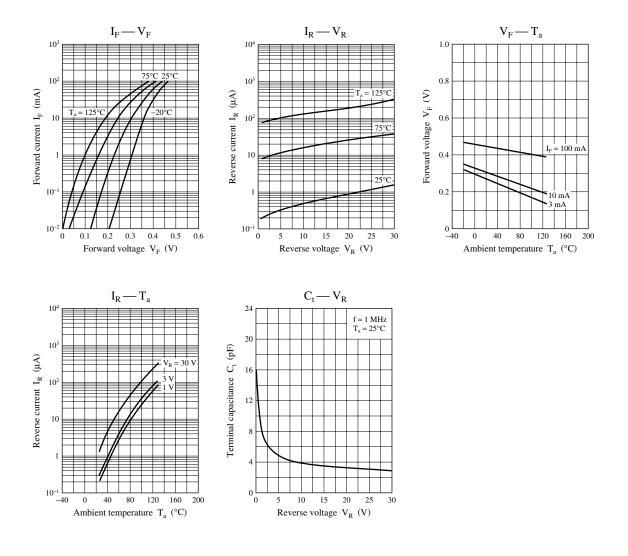
Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

2. Rated input/output frequency: 250 MHz 3. *: t_{rr} measuring instrument



MA3X786D, MA3X786E

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