MA3X786D (MA786WA)

Silicon epitaxial planar type

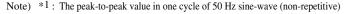
For super-high speed switching circuit For small current rectification

■ Features

- Two MA3X786s are contained in one package (anode common)
- Allowing to rectify under $(I_{F(AV)} = 100 \text{ mA})$ condition
- Optimum for high-frequency rectification because of its short reverse recovery time (t_{rr})
- Low V_F (forward rise voltage), with high rectification efficiency

■ Absolute Maximum Ratings $T_a = 25$ °C

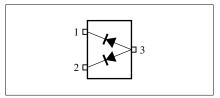
Parameter		Symbol	Rating	Unit
Reverse voltage (DC)		V_R	30	V
Repetitive peak reverse voltage		V_{RRM}	30	V
Peak forward	Single	I_{FM}	300	mA
current	Double*2		200	
Average forward	Single	I _{F(AV)}	100	mA
current	Double*2		70	
Non-repetitive peak forward surge current*1		I_{FSM}	1	A
Junction temperature		T _j	125	°C
Storage temperature		T_{stg}	-55 to +125	°C



^{*2:} Value per chip

Unit: mm 2.8 + 0.2 2.8 + 0.2 3 + 0.25 3 + 0.25 4 + 0.25 4 + 0.25 4 + 0.25 4 + 0.25 4 + 0.25 4 + 0.25 4 + 0.25 4 + 0.25 4 + 0.2 5 + 0.45 5 + 0.45 6 + 0.45 6 + 0.45 7 + 0.25 7

Marking Symbol: M3Y Internal Connection

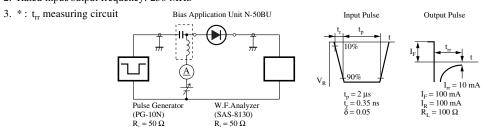


■ Electrical Characteristics $T_a = 25$ °C

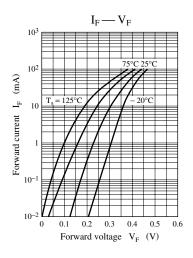
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 30 \text{ V}$			15	μΑ
Forward voltage (DC)	V _F	$I_F = 100 \text{ mA}$			0.55	V
Terminal capacitance	C _t	$V_R = 0 V, f = 1 MHz$		20		pF
Reverse recovery time*	t _{rr}	$I_F = I_R = 100 \text{ mA}$		2		ns
		$I_{\rm rr} = 10 \text{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

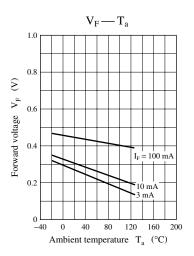
Note) 1. Schottky barrier diode is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

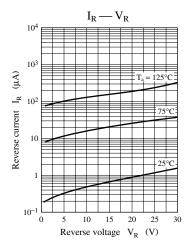
2. Rated input/output frequency: 250 MHz

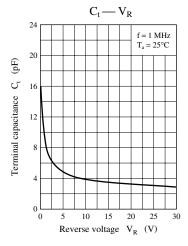


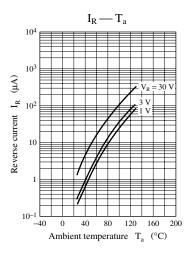
Note) The part number in the parenthesis shows conventional part number.











Panasonic 603

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