MA2X338 (MA338)

Silicon epitaxial planar type

For CATV tuner

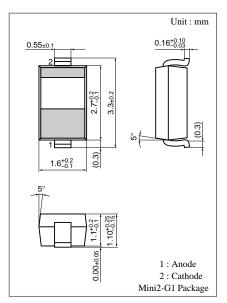
■ Features

- Large capacitance ratio
- Small series resistance r_D, resulting in obtaining high performance index, Q of a circuit

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage (DC)	V_R	34	V	
Peak reverse voltage*	V_{RM}	35	V	
Forward current (DC)	I_{F}	20	mA	
Junction temperature	T _j	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	

Note) *: $R_L = 10 \text{ k}\Omega$



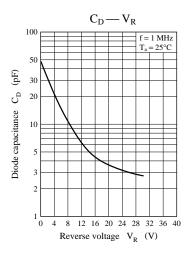
Marking Symbol: 6H

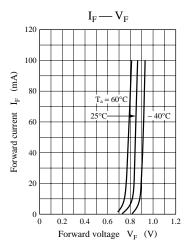
■ Electrical Characteristics $T_a = 25$ °C

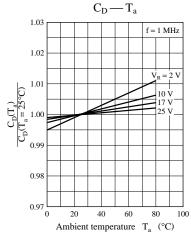
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I_R	$V_R = 30 \text{ V}$			10	nA
Diode capacitance	C _{D(2V)}	$V_R = 2 V, f = 1 MHz$	27.13		32.15	pF
	C _{D(25V)}	$V_R = 25 \text{ V}, \text{ f} = 1 \text{ MHz}$	2.60		3.15	pF
	C _{D(10V)}	$V_R = 10 \text{ V, } f = 1 \text{ MHz}$	7.05		9.97	pF
	C _{D(17V)}	$V_R = 17 \text{ V, } f = 1 \text{ MHz}$	3.48		4.74	pF
Capacitance ratio	C _{D(2V)} /C _{D(25V)}		10			_
Diode capacitance deviation	ΔC	C _{D(2V)(10V)(17V)(25V)}			2.5	%
Series resistance*	r_{D}	$C_D = 9 \text{ pF, f} = 470 \text{ MHz}$			0.63	Ω

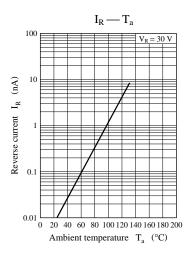
Note) 1. Rated input/output frequency: 470 MHz

^{2. *:} r_f measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER



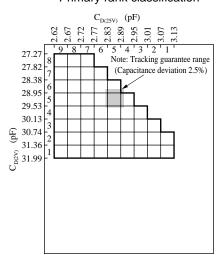




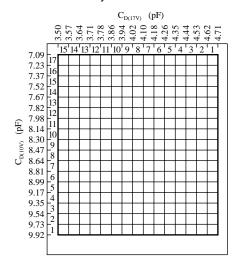


C_D rank classification

Primary rank classification



Secondary rank classification



Panasonic 301

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