

MA2X334 (MA334)

Silicon epitaxial planar type

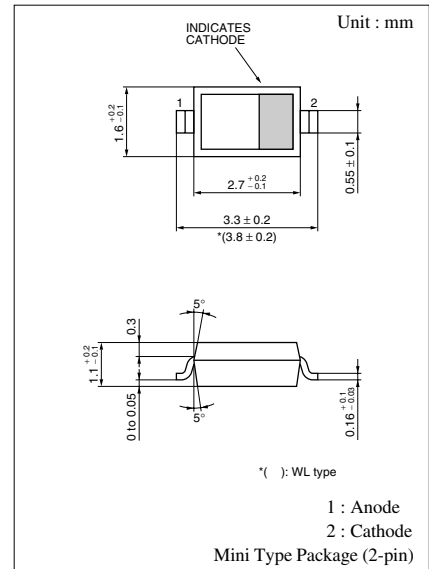
For UHF and VHF electronic tuners

■ Features

- Large capacitance ratio
- Small series resistance r_D
- Mini type package, allowing downsizing of equipment and automatic insertion through the taping package

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	30	V
Peak reverse voltage	V_{RM}	34	V
Forward voltage (DC)	I_F	20	mA
Junction temperature	T_J	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$



Marking Symbol: 6D

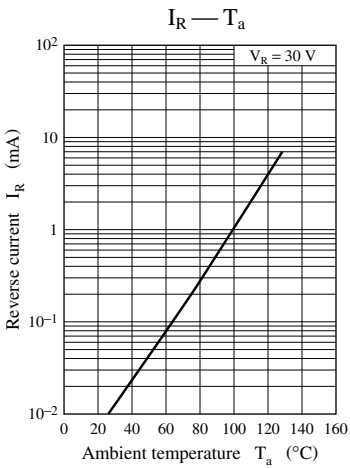
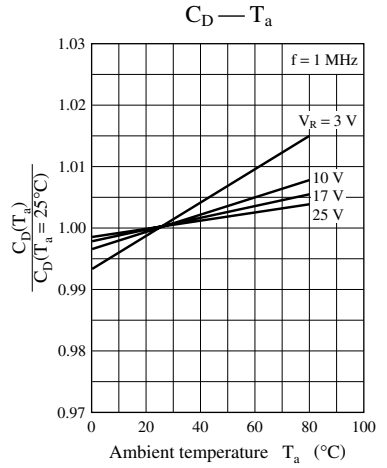
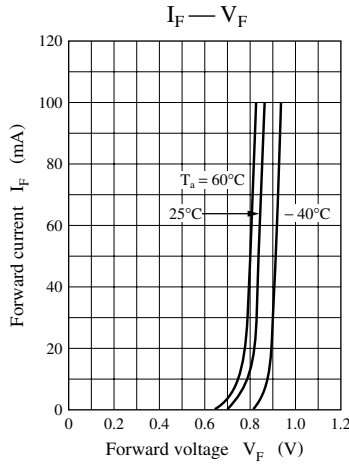
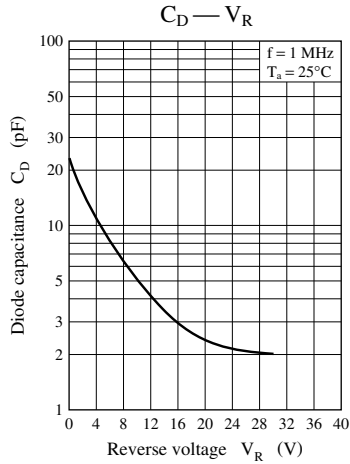
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 30\text{ V}$			10	nA
Diode capacitance	$C_{D(3V)}$	$V_R = 3\text{ V}, f = 1\text{ MHz}$	11.233		12.781	pF
	$C_{D(25V)}$	$V_R = 25\text{ V}, f = 1\text{ MHz}$	2.020		2.367	pF
	$C_{D(10V)}$	$V_R = 10\text{ V}, f = 1\text{ MHz}$	4.358		5.422	pF
	$C_{D(17V)}$	$V_R = 17\text{ V}, f = 1\text{ MHz}$	2.567		3.100	pF
Capacitance ratio	$C_{D(3V)}/C_{D(25V)}$		4.60		6.15	—
Capacitance difference	$C_{D(17V)}/C_{D(25V)}$		0.37			pF
Diode capacitance deviation	ΔC	$C_{D(3V)(10V)(17V)(25V)}$			2	%
Series resistance*	r_D	$C_D = 9\text{ pF}, f = 470\text{ MHz}$	0.38		0.72	Ω

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

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

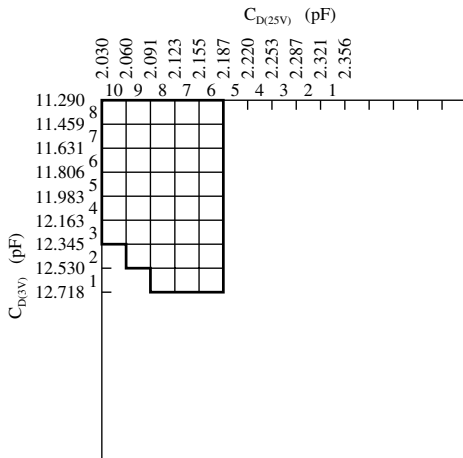
Note) The part number in the parenthesis shows conventional part number.



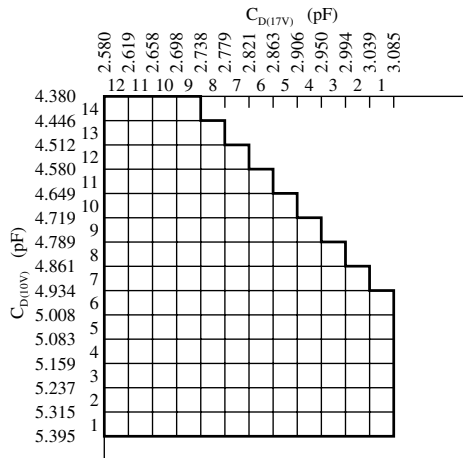
CD rank classification

•MA2X334B

Primary rank classification

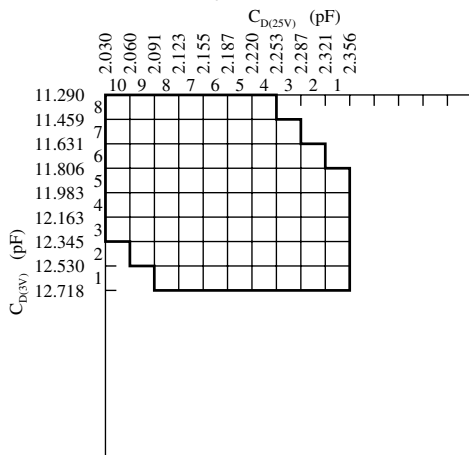


Secondary rank classification

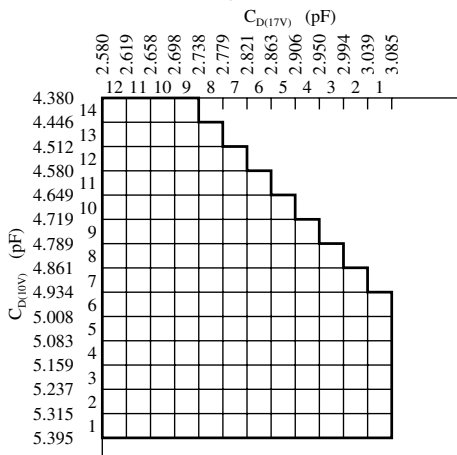


•MA2X3340G

Primary rank classification



Secondary rank classification



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