

MA334

Silicon epitaxial planer type

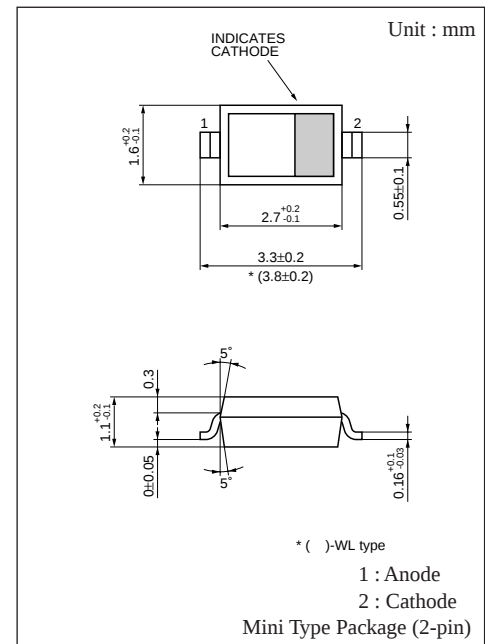
For UHF and VHF electronic tuners

■ Features

- Large capacity variation ratio
- Small series resistance r_D
- Mini package, enabling down-sizing of the equipment and automatic insertion through taping

■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	30	V
Peak reverse voltage	V_{RM}	34	V
Forward current (DC)	I_F	20	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	- 55 to +150	°C



Marking Symbol : 6D

■ Electrical Characteristics (Ta= 25°C)

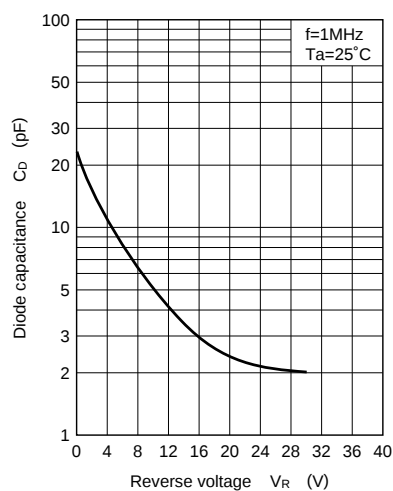
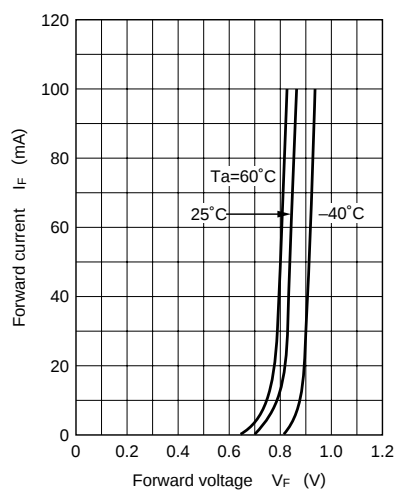
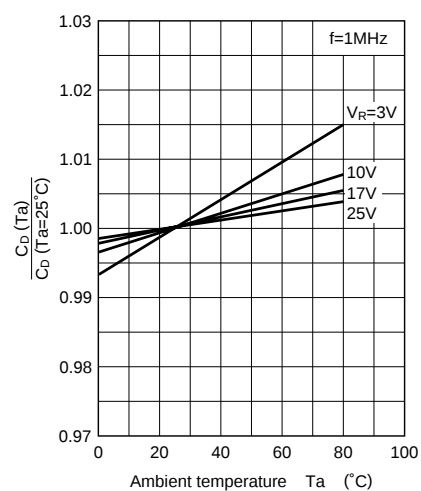
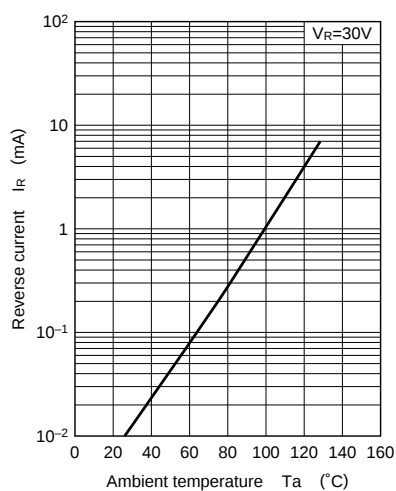
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 30V$			10	nA
Diode capacitance	$C_{D(3V)}$	$V_R = 3V, f = 1MHz$	11.233		12.781	pF
	$C_{D(25V)}$	$V_R = 25V, f = 1MHz$	2.020		2.367	pF
	$C_{D(10V)}$	$V_R = 10V, f = 1MHz$	4.358		5.422	pF
	$C_{D(17V)}$	$V_R = 17V, f = 1MHz$	2.567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

Note 1. Rated input/output frequency : 470MHz

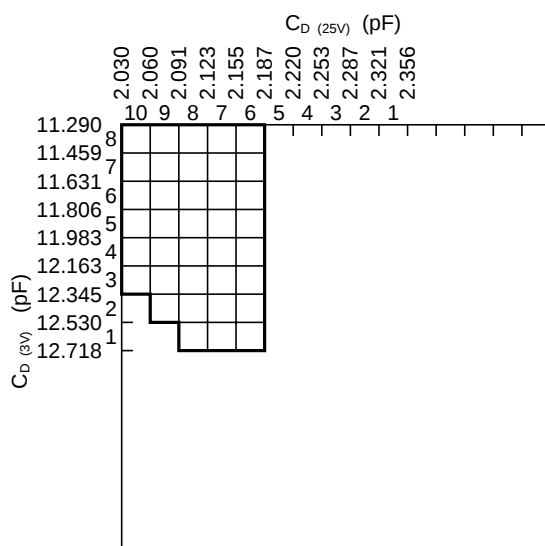
2. * r_D measurement device : YHP MODEL 4191A RF IMPEDANCE ANALYZER

■ Marking

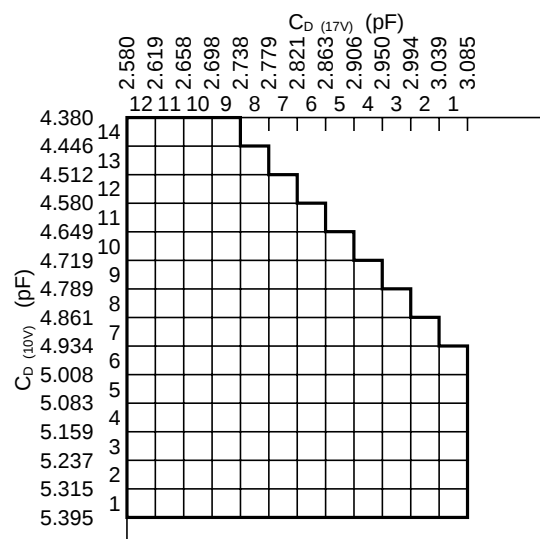


$C_D - V_R$  $I_F - V_F$  $C_D - T_a$  $I_R - T_a$  **C_D rank classification**

● MA334B Primary rank classification

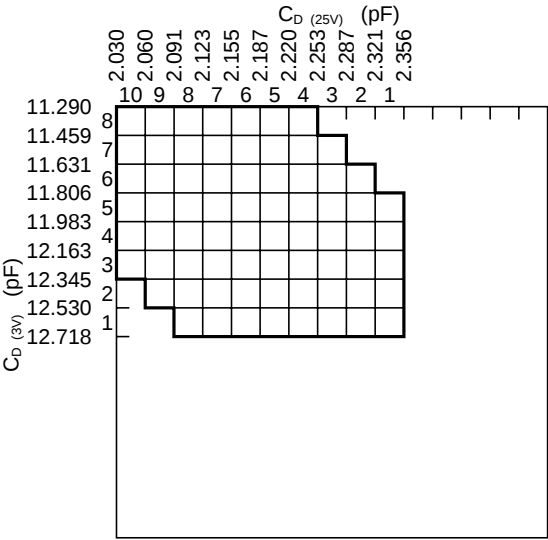


Secondary rank classification



● MA334G

Primary rank classification



Secondary rank classification

