

MA337

Silicon epitaxial planer type

For CATV tuner

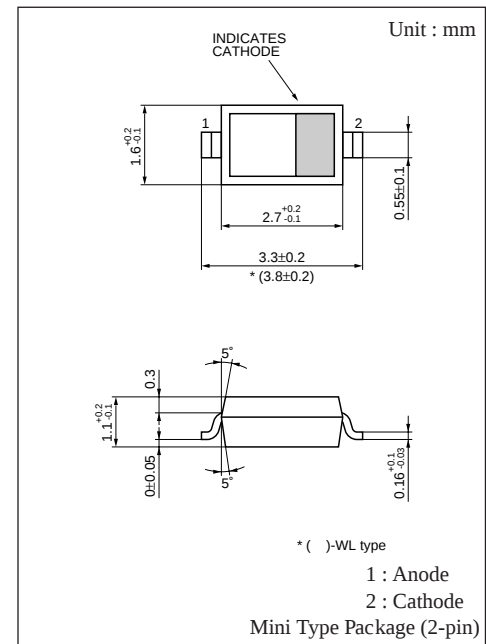
■ Features

- Capacity variation ratio largest at 14 ($C_{D(2V)}/C_{D(25V)}$)
- 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	32	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

* $R_L = 10k\Omega$



Marking Symbol : 6F

■ Electrical Characteristics (Ta= 25°C)

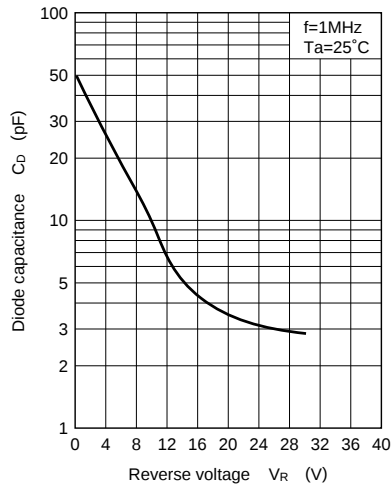
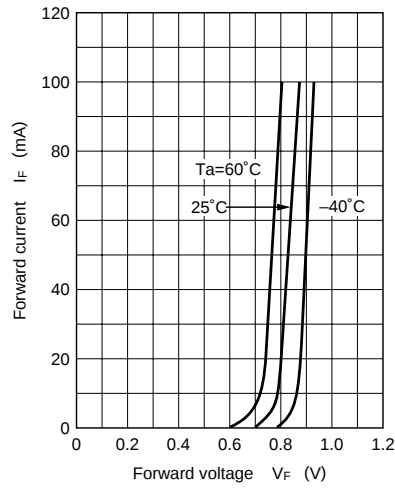
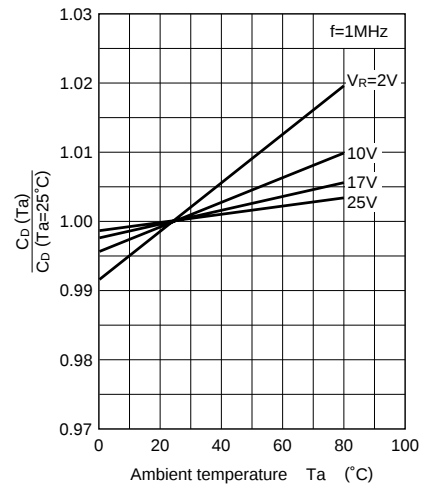
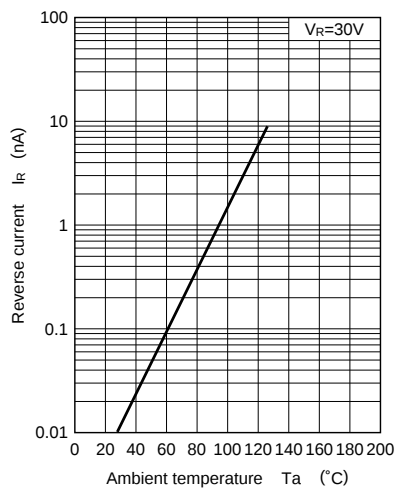
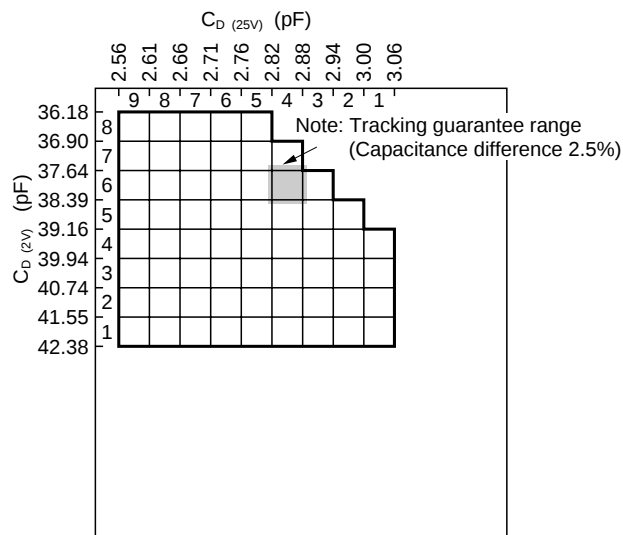
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 30V$			10	nA
Diode capacitance	$C_{D(2V)}$	$V_R = 2V, f = 1MHz$	36.00		42.59	pF
	$C_{D(25V)}$	$V_R = 25V, f = 1MHz$	2.54		3.08	pF
	$C_{D(10V)}$	$V_R = 10V, f = 1MHz$	8.00		11.31	pF
	$C_{D(17V)}$	$V_R = 17V, f = 1MHz$	3.40		4.63	pF
Capacitance ratio	$C_{D(2V)}/C_{D(25V)}$		13	14		—
Diode capacitance deviation	ΔC	$C_{D(2V)} (10V) (17V) (25V)$			2.5	%
Series resistance	r_D^*	$C_D = 9pF, f = 470MHz$			0.85	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****Primary rank classification****Secondary rank classification**