

MA377

Silicon epitaxial planer type

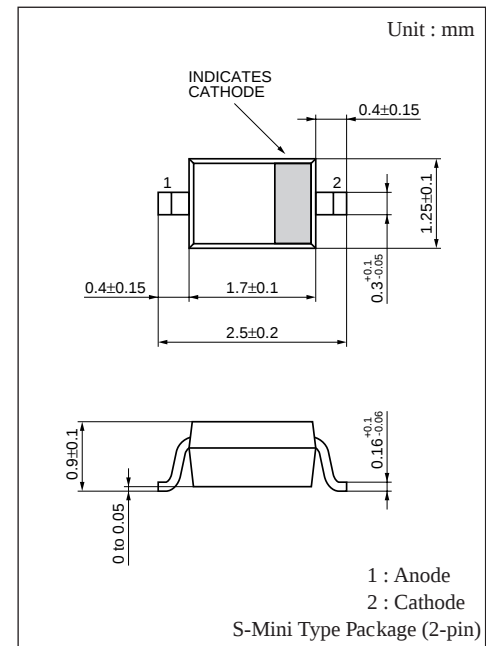
For UHF band wireless equipment VCO

■ Features

- S-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	12	V
Forward current (DC)	I_F	20	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	– 55 to +150	°C



Marking Symbol : 7D

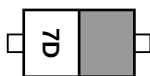
■ Electrical Characteristics (Ta= 25°C)

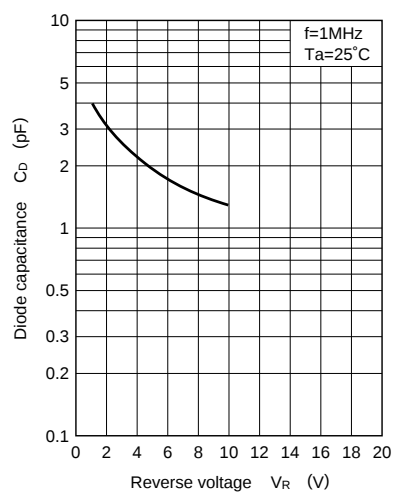
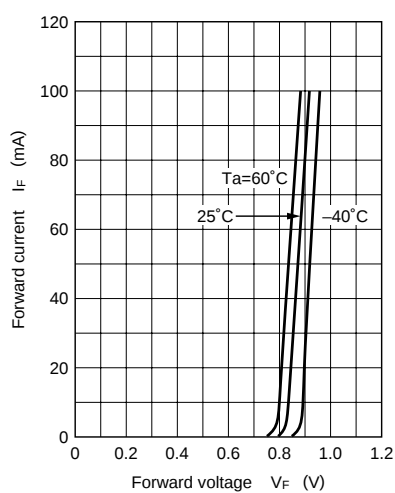
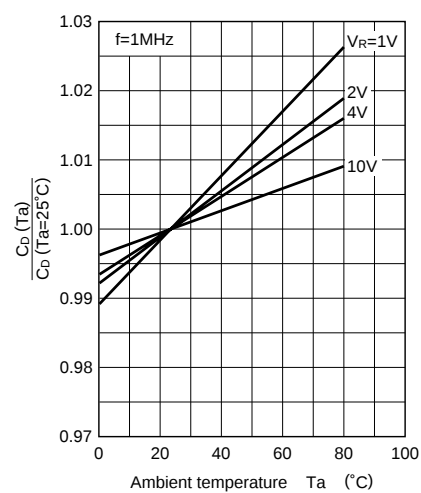
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 12V$			10	nA
Diode capacitance	$C_{D(2V)}$	$V_R = 2V, f = 1MHz$	2.80		3.40	pF
	$C_{D(10V)}$	$V_R = 10V, f = 1MHz$	1.10		1.50	pF
Capacitance ratio	$C_{D(2V)}/C_{D(10V)}$		2.20		2.80	—
Series resistance	r_D^*	$V_R = 1V, f = 470MHz$		0.40	0.60	Ω

Note 1. Rated input/output frequency : 470MHz

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

■ Marking



$C_D - V_R$  $I_F - V_F$  $C_D - T_a$  $I_R - T_a$ 