

MA362

Silicon epitaxial planer type

For wireless equipment VCO

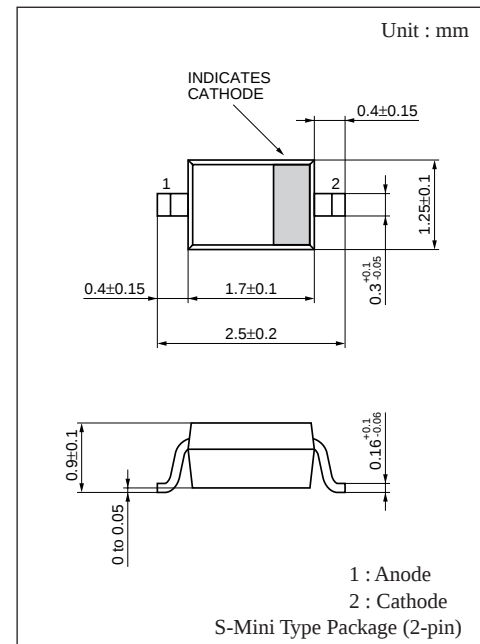
For electronic tuning of UHF and VHF TV tuner

■ Features

- Good linearity and large capacity ratio of $V_R - C_D$
- Small series resistance r_D
- 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	9	V
Forward current (DC)	I_F	20	mA
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	– 55 to +125	°C



Marking Symbol : 6C

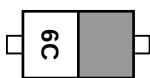
■ Electrical Characteristics (Ta= 25°C)

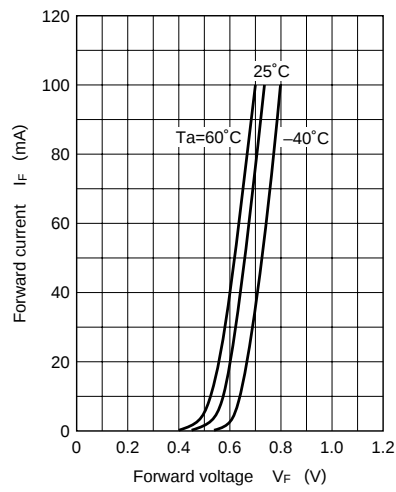
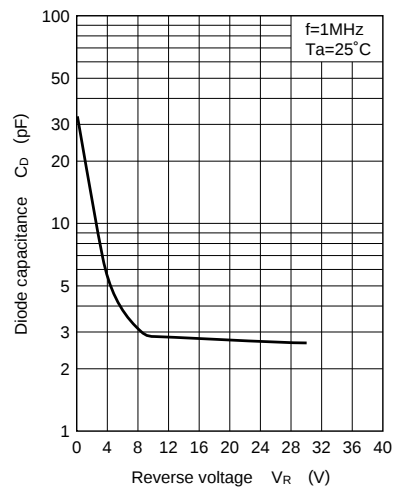
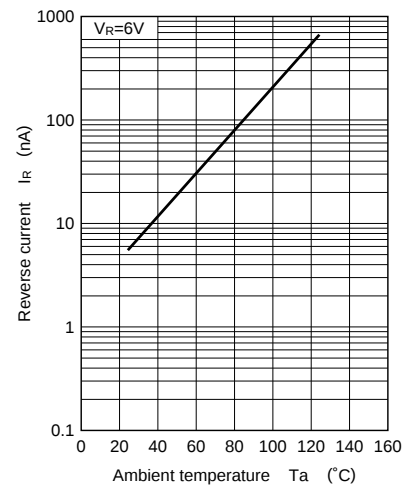
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 6V$			100	nA
Reverse voltage (DC)	V_R	$I_R = 1\mu A$	9			V
Diode capacitance	$C_{D(2V)}$	$V_R = 2V, f = 1MHz$	13.5	15.5	17.0	pF
	$C_{D(4V)}$	$V_R = 4V, f = 1MHz$	4.0	6.8	7.5	pF
	$C_{D(6V)}$	$V_R = 6V, f = 1MHz$	2.8	4.0	4.5	pF
Series resistance	r_D *	$C_D = 9pF, f = 470MHz$		0.25	0.35	Ω

Note 1. Rated input/output frequency : 470MHz

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

■ Marking



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