

MA10301

Silicon epitaxial planer type

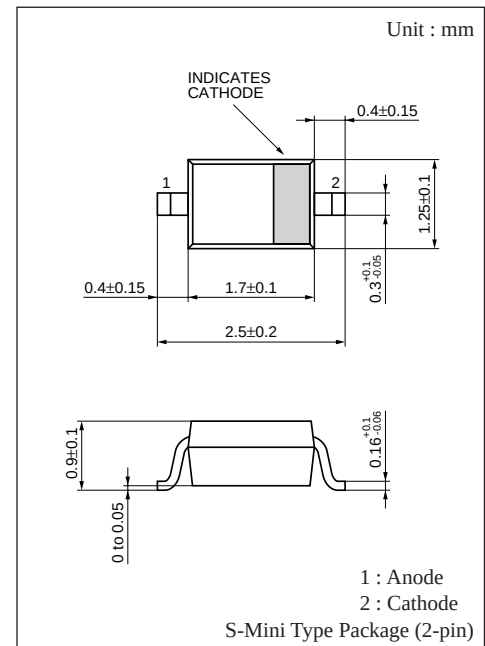
For VCO

■ 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	15	V
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	- 55 to + 150	°C



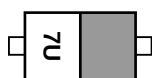
■ Electrical Characteristics (Ta= 25°C)

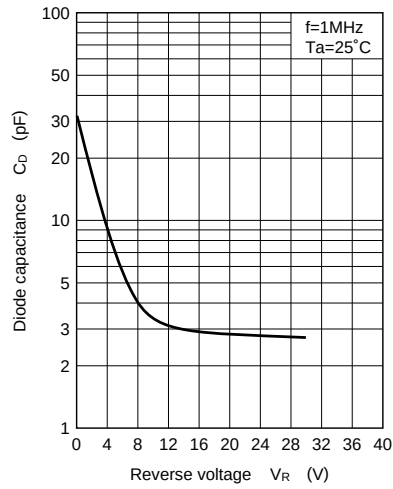
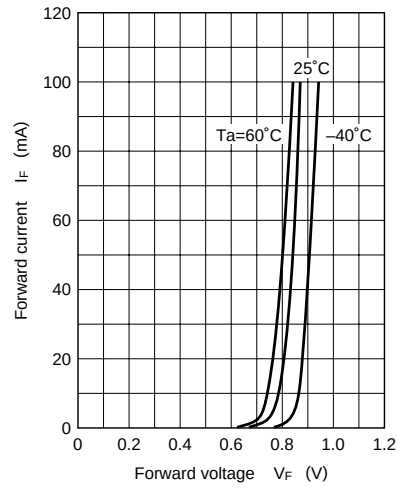
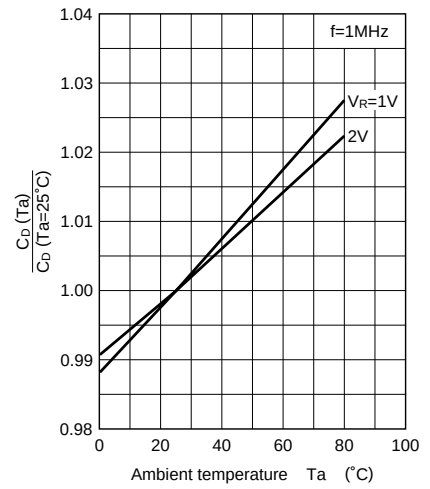
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R=10V$			10	nA
Diode capacitance	$C_{D(1V)}$	$V_R=1V, f=1MHz$	19.5		23.5	pF
	$C_{D(2V)}$	$V_R=2V, f=1MHz$	14.3		17.6	pF
Capacitance ratio	$C_{D(1V)}/C_{D(2V)}$		1.3			—
Series resistance	r_D^*	$V_R=4V, f=100MHz$			0.35	Ω

Note 1 : Rated input/output frequency : 100MHz

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

■ Marking



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