

# MA2Z362

## Silicon epitaxial planar type

For VCO of a radio

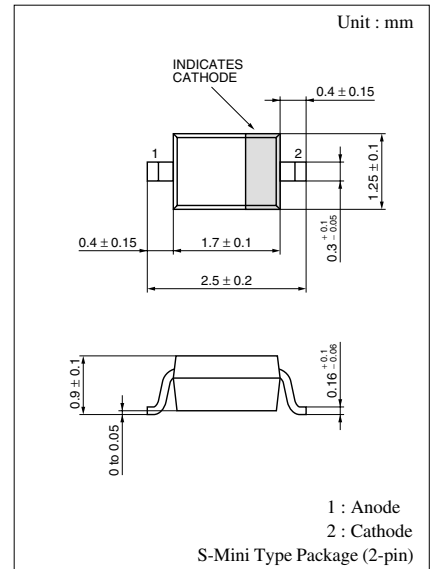
For electronic tuning of UHF and VHF TV tuner

### ■ Features

- Good linearity and large capacitance-ratio in  $C_D$ — $V_R$  relation
- Small series resistance  $r_D$
- S-mini type package, allowing downsizing of equipment and automatic insertion through the taping package

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	$V_R$	9	V
Forward current (DC)	$I_F$	20	mA
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$



Marking Symbol: 6C

### ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

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

Note) 1. Rated input/output frequency: 470 MHz

2. \*:  $r_f$  measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER

