

# **MA2Z365** (MA365)

## Silicon epitaxial planar type

#### For CATV tuner

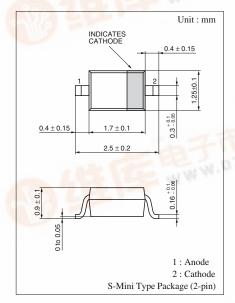
#### ■ Features

- The largest capacitance ratio of 14 (C<sub>D(2V)</sub> / C<sub>D(25V)</sub>)
- S-mini type package, allowing downsizing of equipment and automatic insertion through the taping package

### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage (DC)	$V_R$	32	V	
Peak reverse voltage*	V <sub>RM</sub>	35	V	
Forward current (DC)	$I_{\mathrm{F}}$	20	mA	
Junction temperature	T <sub>j</sub>	150	°C	
Storage temperature	$T_{stg}$	-55 to +150	°C	

Note) \* :  $R_L = 10 \text{ k}\Omega$ 



Marking Symbol: 6F

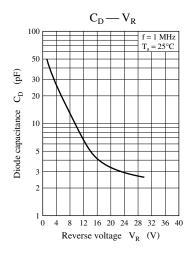
## ■ Electrical Characteristics T<sub>a</sub> = 25°C

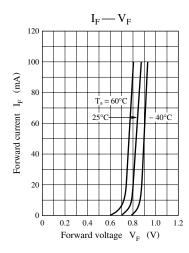
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 30 \text{ V}$			10	nA
Diode capacitance	C <sub>D(2V)</sub>	$V_R = 2 V, f = 1 MHz$	36.00		42.59	pF
	C <sub>D(25V)</sub>	$V_R = 25 \text{ V, f} = 1 \text{ MHz}$	2.54		3.08	pF
	C <sub>D(10V)</sub>	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$	8.00		11.31	pF
	C <sub>D(17V)</sub>	V <sub>R</sub> = 17 V, f = 1 MHz	3.40		4.63	pF
Capacitance ratio	C <sub>D(2V)</sub> /C <sub>D(25V)</sub>	本切P.	13	14		_
Diode capacitance deviation	ΔC	C <sub>D(2V)(10V)(17V)(25V)</sub>			2.5	%
Series resistance*	$r_{\mathrm{D}}$	$C_D = 9 \text{ pF, f} = 470 \text{ MHz}$			0.85	Ω

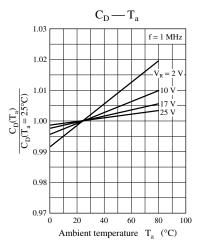
Note) 1. Rated input/output frequency: 470 MHz

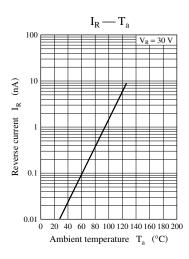
2. \*: r<sub>f</sub> measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER





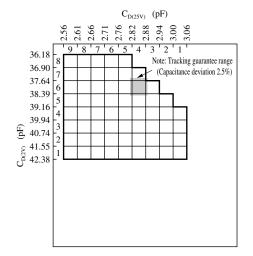




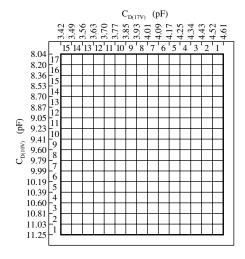


#### C<sub>D</sub> rank classification

#### Primary rank classification



### Secondary rank classification



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