# **MA2Z331** (MA331)

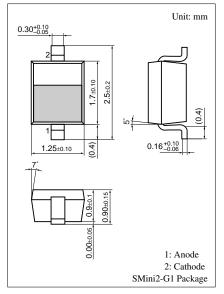
## Silicon epitaxial planar type

#### ■ Features

- Small series resistance:  $r_D = 0.18 \Omega$  (typ.)
- Good linearity of C V curve
- Small type package, optimum for down-sizing of equipment

### ■ Absolute Maximum Ratings $T_a = 25$ °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: 6T

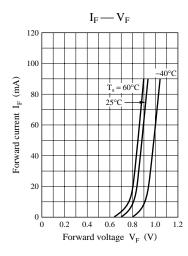
### ■ Electrical Characteristics $T_a = 25$ °C

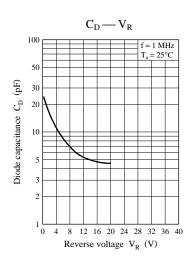
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	$I_R$	$V_R = 12 V$			10	nA
Diode capacitance	C <sub>D(1V)</sub>	$V_R = 1 \text{ V, f} = 1 \text{ MHz}$	17.0		20.0	pF
	C <sub>D(2V)</sub>	$V_R = 2 V, f = 1 MHz$	14.0	15.0	16.0	
	C <sub>D(4V)</sub>	$V_R = 4 \text{ V}, \text{ f} = 1 \text{ MHz}$	10.0		12.4	
	C <sub>D(10V)</sub>	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$	5.5	6.0	6.5	
Capacitance ratio	C <sub>D(1V)</sub> /C <sub>D(4V)</sub>		1.53	1.6	1.83	_
	C <sub>D(2V)</sub> /C <sub>D(10V)</sub>		2.25	2.5	2.75	
Series resistance *	$r_{\mathrm{D}}$	$C_D = 9 \text{ pF, f} = 470 \text{ MHz}$		0.18	0.22	Ω

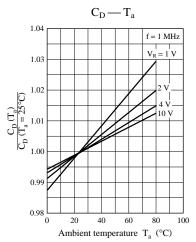
Note) 1. Rated input/output frequency: 470 MHz

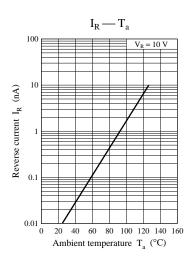
2. \*: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

Note) The part number in the parenthesis shows conventional part number.









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