# MA2Z367 (MA367)

### Silicon epitaxial planar type

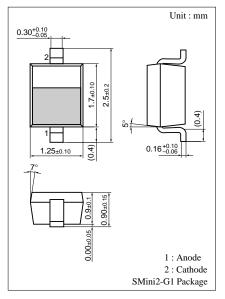
For AFC of UHF and VHF electronic tuner

#### Features

- · Large capacitance ratio
- Small series resistance r<sub>D</sub>
- S-mini type package, allowing downsizing of equipment and automatic insertion through the taping package

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V <sub>R</sub>	30	V
Peak reverse voltage	V <sub>RM</sub>	34	V
Junction temperature	Tj	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C



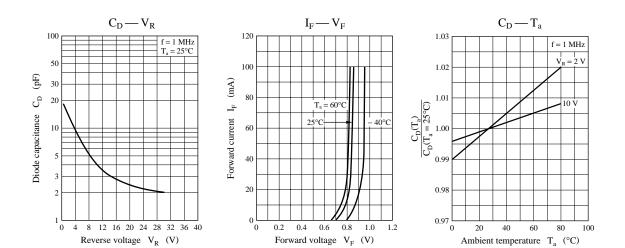
#### Marking Symbol: 6K

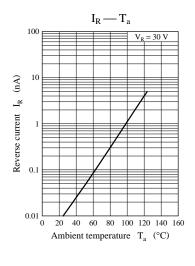
#### $\blacksquare Electrical Characteristics T_a = 25^{\circ}C$ Symbol Parameter Conditions

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I <sub>R</sub>	$V_R = 30 V$			10	nA
Diode capacitance	C <sub>D(2V)</sub>	$V_R = 2 V, f = 1 MHz$	10.5		16.0	pF
	C <sub>D(10V)</sub>	$V_{R} = 10 V, f = 1 MHz$	3.3		5.7	pF
Capacitance ratio	C <sub>D(2V)</sub> /C <sub>D(10V)</sub>		2.8		3.4	
Series resistance*	r <sub>D</sub>	$V_R = 9 \text{ pF},  \text{f} = 470 \text{ MHz}$			1.6	Ω

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

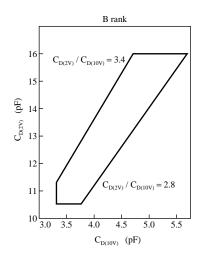
2. \*: rf measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER





C<sub>D</sub> rank classification

Gap classification table for AFC



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