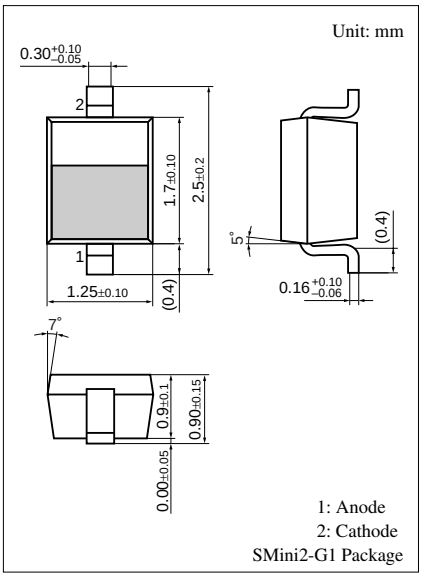
MA2Z360 (MA360)

Silicon epitaxial planar type

For UHF and VHF electronic tuners

■ Features

- Large capacitance ratio
- Small series resistance r_D



Marking Symbol: 6A

■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	30	V
Peak reverse voltage *	V_{RM}	35	V
Forward current (DC)	I_F	20	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

Note) ∗: $R_L = 10\ k\Omega$

■ Electrical Characteristics $T_a = 25°C$

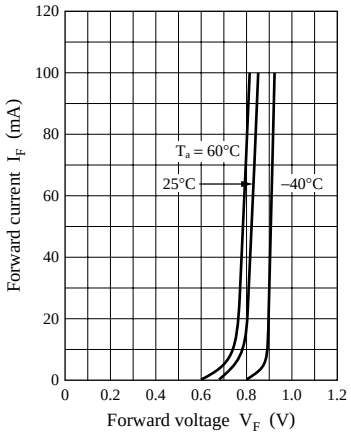
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 28$ V			10	nA
Diode capacitance	$C_{D(2V)}$	$V_R = 2$ V, f = 1 MHz	14.360		16.340	pF
	$C_{D(25V)}$	$V_R = 25$ V, f = 1 MHz	2.089		2.448	
	$C_{D(10V)}$	$V_R = 10$ V, f = 1 MHz	5.433		6.369	
	$C_{D(17V)}$	$V_R = 17$ V, f = 1 MHz	2.945		3.452	
Capacitance ratio	$C_{D(2V)}/C_{D(25V)}$		5.95		7.26	—
Diode capacitance deviation	ΔC	$C_{D(2V)(10V)(17V)(25V)}$			2	%
Series resistance *	r_D	$C_D = 9$ pF, f = 470 MHz			0.6	Ω

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

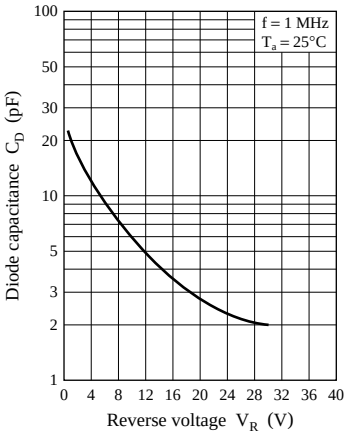
2. ∗: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

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

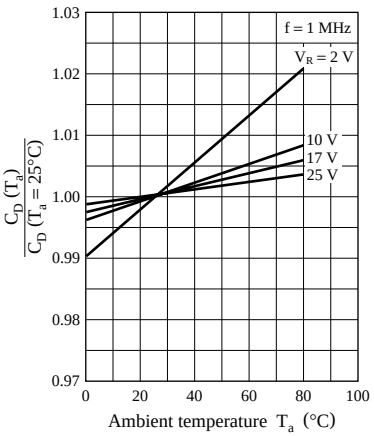
I_F — V_F



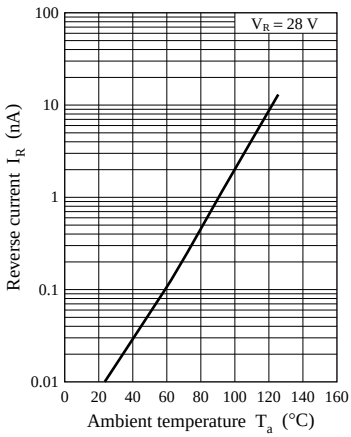
C_D — V_R



C_D — T_a

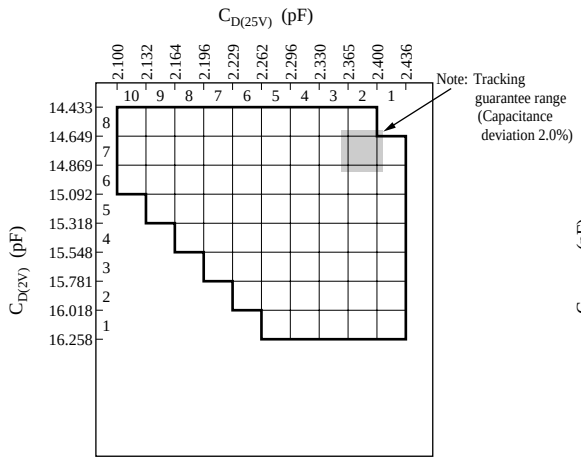


I_R — T_a

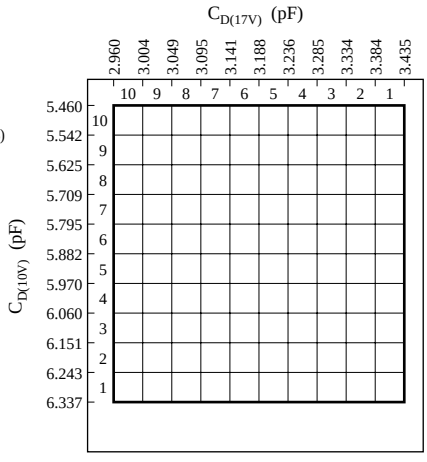


C_D rank classification

Primary rank classification



Secondary rank classification



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