MA2Z357 (MA357)

Silicon epitaxial planar type

For CATV tuner

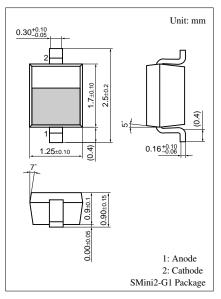
Features

- Large capacitance ratio
- Small series resistance r_D

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V _R	34	V
Peak reverse voltage *	V _{RM}	35	V
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Note) *: $R_L = 10 k\Omega$



Marking Symbol: 7K

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

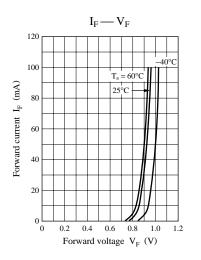
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	$V_{R} = 30 V$			10	nA
Diode capacitance	C _{D(0V)} *1	$V_{R} = 0 V, f = 1 MHz$	58.0			pF
	C _{D(2V)}	$V_{R} = 2 V, f = 1 MHz$	29.00		34.30	
	C _{D(25V)}	$V_R = 25 V, f = 1 MHz$	2.53		2.92	
	C _{D(10V)}	$V_{R} = 10 V, f = 1 MHz$	6.40		8.32	
	C _{D(17V)}	$V_{R} = 17 V, f = 1 MHz$	3.50		4.35	
Capacitance ratio	C _{D(2V)} /C _{D(25V)}		11.0			
Diode capacitance deviation	ΔC	C _{D(2V)(10V)(17V)(25V)}			2.0	%
Series resistance *2	r _D	$C_{\rm D} = 9 \text{ pF}, \text{ f} = 470 \text{ MHz}$			0.54	Ω

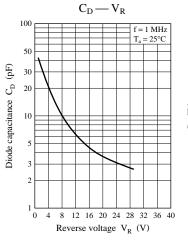
Note) 1. Rated input/output frequency: 470 MHz

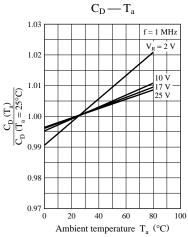
2. *1: Measurement at Low Signal Level

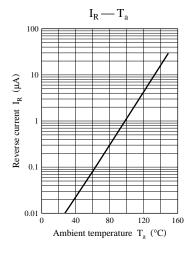
*2: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

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

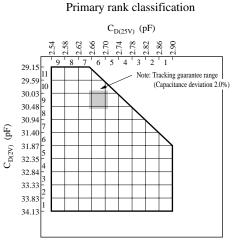


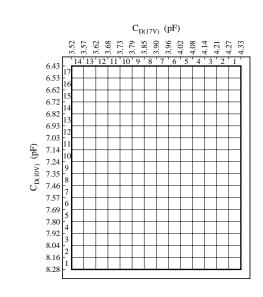






C_D rank classification





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