

MA357

Silicon epitaxial planer type

For CATV tuner

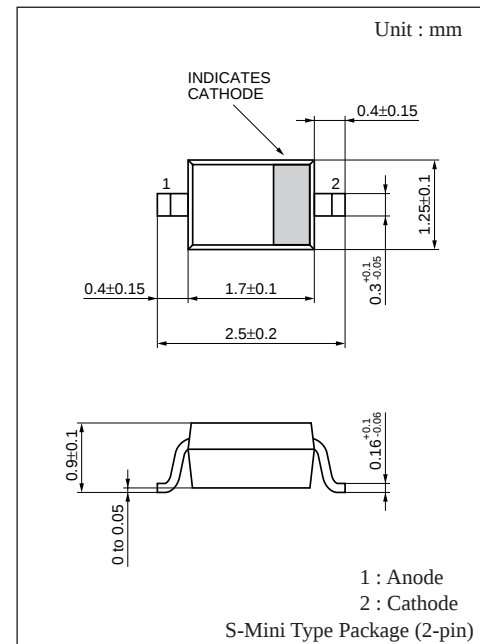
■ Features

- Large capacity variation ratio
- Small series resistance r_D

■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	34	V
Peak reverse voltage	V_{RM}^*	35	V
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	– 55 to +150	°C

* $R_L=10k\Omega$



Marking Symbol : 7K

■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R=30V$			10	nA
Diode capacitance	$C_{D(0V)}$	$V_R=0V, f=1MHz$	58.0			pF
	$C_{D(2V)}$	$V_R=2V, f=1MHz$	29.00		34.30	pF
	$C_{D(25V)}$	$V_R=25V, f=1MHz$	2.53		2.92	pF
	$C_{D(10V)}$	$V_R=10V, f=1MHz$	6.40		8.32	pF
	$C_{D(17V)}$	$V_R=17V, f=1MHz$	3.50		4.35	pF
Capacitance ratio	$C_{D(2V)}/C_{D(25V)}$		11.0			—
Diode capacitance deviation	ΔC	$C_D(2V)(10V)(17V)(25V)$			2.0	%
Series resistance	r_D^{*2}	$C_D=9pF, f=470MHz$			0.54	Ω

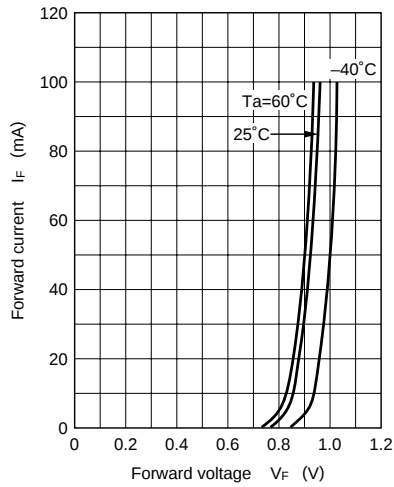
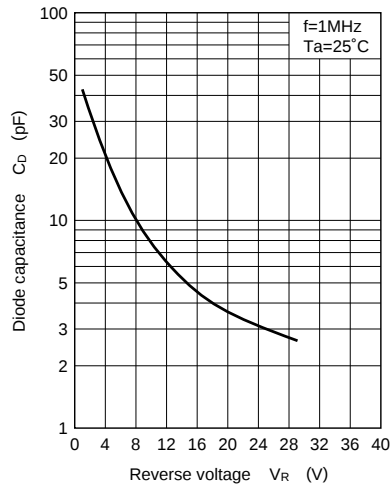
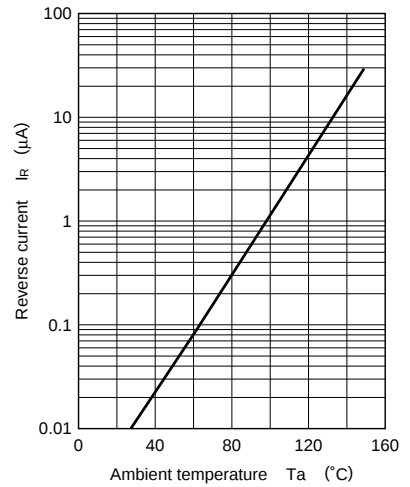
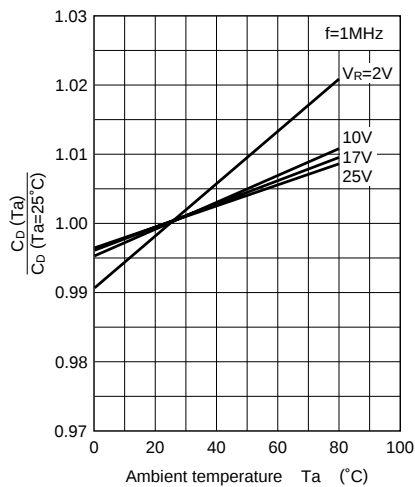
Note 1. Rated input/output frequency : 470MHz

2. *1 : Measurement : Low Signal Level

3. *2 : r_D measurement device : YHP MODEL 4191A RF IMPEDANCE ANALYZER

■ Marking



$I_F - V_F$  $C_D - V_R$  $I_R - T_a$  $C_D - T_a$  C_D rank classification

Primary rank classification

