

MA393

N type GaAS epitaxial planer type

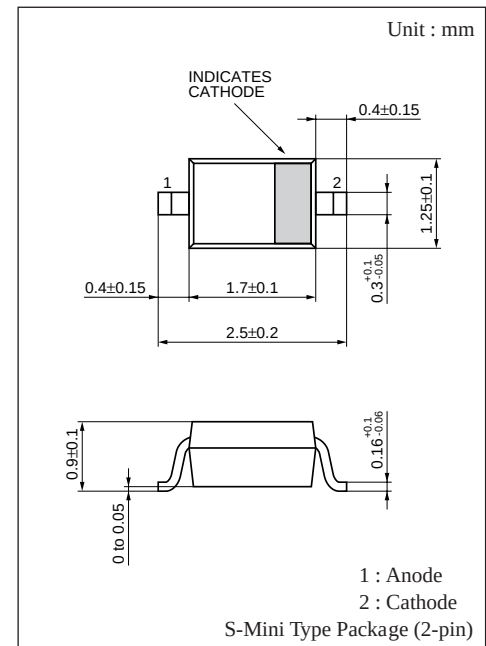
For transmitter VCO

■ Features

- Small series resistance r_D and high Q value
- Large capacity variation ratio during low-voltage operation

■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	10	V
Forward current (DC)	I_F	50	mA
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	- 55 to +125	°C



Marking Symbol : 7P

■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 6V$			50	nA
Forward voltage (DC)	V_F	$I_F = 50mA$			0.8	V
Reverse voltage (DC)	V_R	$I_R = 1\mu A$	10			V
Diode capacitance	$C_{D(1V)}$	$V_R = 1V, f = 1MHz$	8	10.5	13	pF
	$C_{D(4V)}$	$V_R = 4V, f = 1MHz$	2.1	3.6	5.1	pF
Series resistance	r_D^*	$C_D = 4.5pF, f = 470MHz$		0.3	0.4	Ω

Note 1. Rated input/output frequency : 470MHz

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

■ Marking

