

# MA392

N type GaAS epitaxial planer type

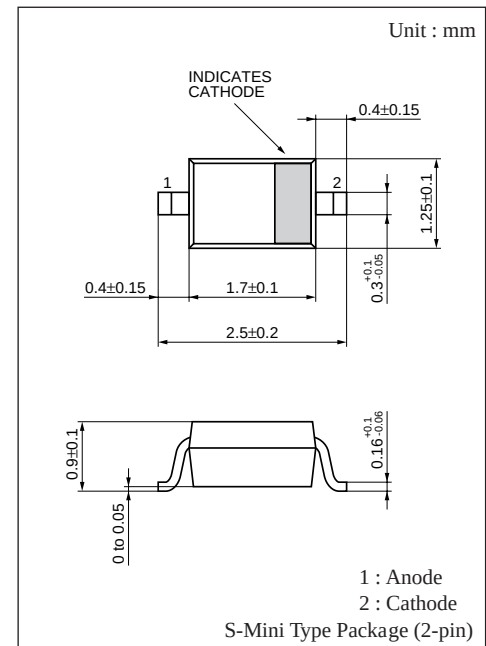
For transmitter VCO

## ■ 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) | $I_F$     | 40           | mA   |
| Junction temperature | $T_j$     | 125          | °C   |
| Storage temperature  | $T_{stg}$ | – 55 to +125 | °C   |



Marking Symbol : 7N

## ■ 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) | $V_F$       | $I_F = 40mA$              |     |     | 0.8 | V        |
| Reverse voltage (DC) | $V_R$       | $I_R = 1\mu A$            | 10  |     |     | V        |
| Diode capacitance    | $C_{D(1V)}$ | $V_R = 1V, f = 1MHz$      | 3.5 | 5.0 | 6.5 | pF       |
|                      | $C_{D(4V)}$ | $V_R = 4V, f = 1MHz$      | 1.0 | 1.8 | 2.6 | pF       |
| Series resistance    | $r_D^*$     | $C_D = 2.3pF, f = 470MHz$ |     | 0.3 | 0.4 | $\Omega$ |

Note 1. Rated input/output frequency : 470MHz

2. \*  $r_D$  measurement device : RF IMPEDANCE ANALYZER

## ■ Marking



