

MA333

N type GaAS epitaxial planer type

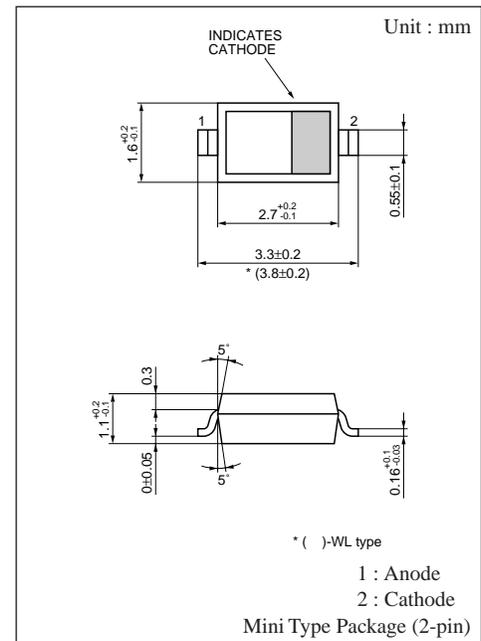
For wireless equipment VCO,
For electronic tuning of UHF and VHF TV tuner

■ Features

- Low series resistance r_D and high Q value
- Large capacity change ratio during low-voltage operation

■ Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	9	V
Forward current (DC)	I_F	100	mA
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	- 55 to + 125	$^\circ\text{C}$



Marking Symbol : 6C

■ Electrical Characteristics ($T_a=25^\circ\text{C}$)

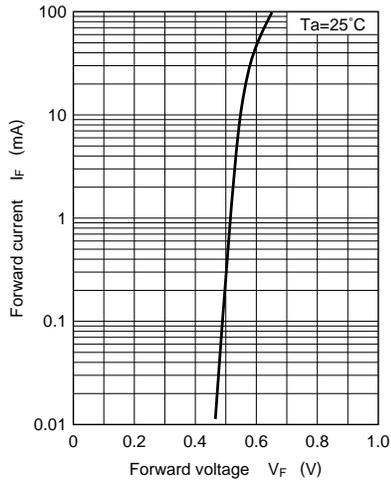
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R=6\text{V}$			100	nA
Reverse voltage (DC)	V_R	$I_R=1\mu\text{A}$	9			V
Diode capacitance	$C_{D(2V)}$	$V_R=2\text{V}, f=1\text{MHz}$	13.5	15.5	17.0	pF
	$C_{D(4V)}$	$V_R=4\text{V}, f=1\text{MHz}$	4.0	6.8	7.5	pF
	$C_{D(6V)}$	$V_R=6\text{V}, f=1\text{MHz}$	2.8	4.0	4.5	pF
Series resistance	r_D^*	$C_D=9\text{pF}, f=470\text{MHz}$		0.25	0.35	Ω

Note 1. Rated input/output frequency : 470MHz
2. r_D^* measurement device : YHP MODEL 4191A RF IMPEDANCE ANALYZER

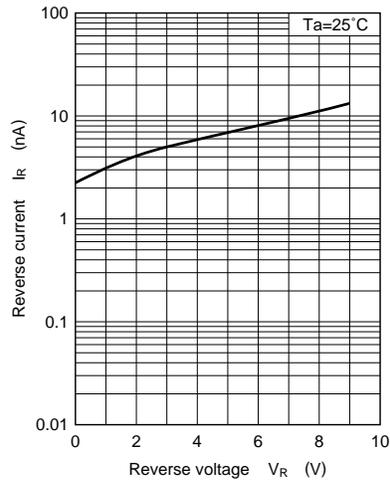
■ Marking



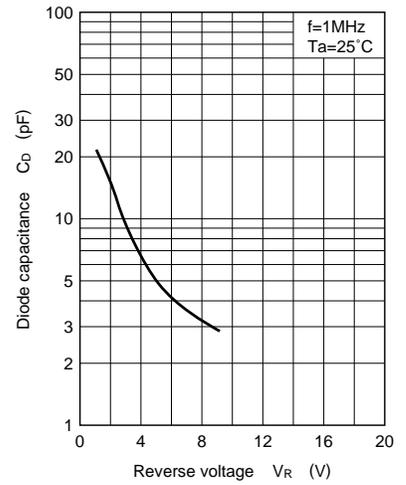
$I_F - V_F$



$I_R - V_R$



$C_D - V_R$



$C_D - T_a$

