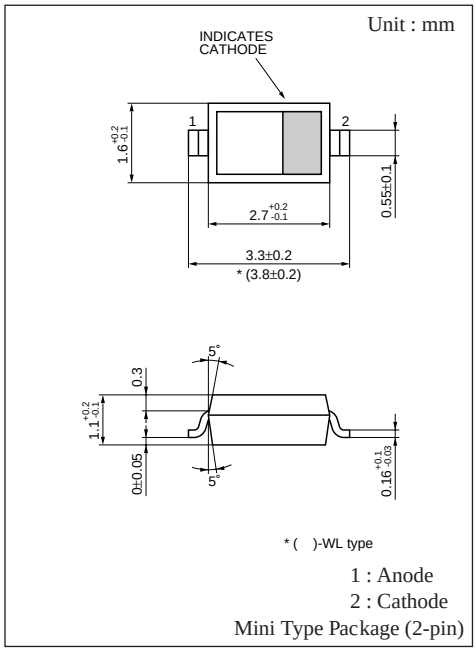
MA339

Silicon epitaxial planer type

For UHF and VHF electronic tuners



Marking Symbol : 6N

■ 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	32	V
Peak reverse voltage	V_{RM} *	34	V
Forward current (DC)	I_F	20	mA
Junction temperature	T_j	150	˚C
Storage temperature	T_{stg}	– 55 to +150	˚C

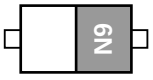
* R_L= 2.2kΩ

■ Electrical Characteristics (Ta= 25˚C)

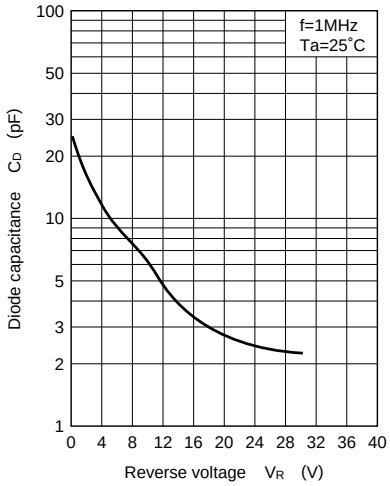
Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	V_R= 30V			10	nA
Diode capacitance	$C_{D(2V)}$	V_R= 2V, f= 1MHz	14.220		15.473	pF
	$C_{D(25V)}$	V_R= 25V, f= 1MHz	2.132		2.321	pF
	$C_{D(10V)}$	V_R= 10V, f= 1MHz	5.307		6.128	pF
	$C_{D(17V)}$	V_R= 17V, f= 1MHz	2.909		3.411	pF
Capacitance ratio	$C_{D(2V)}/C_{D(25V)}$		6.22			—
	$C_{D(10V)}/C_{D(17V)}$		1.70		1.96	—
Diode capacitance deviation	ΔC	$C_{D\ (2V)\ (10V)\ (17V)\ (25V)}$			2	%
Series resistance	r_D*	C_D= 9pF, f= 470MHz			0.45	Ω

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

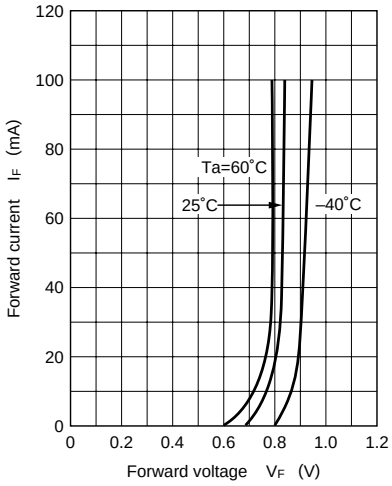
■ Marking



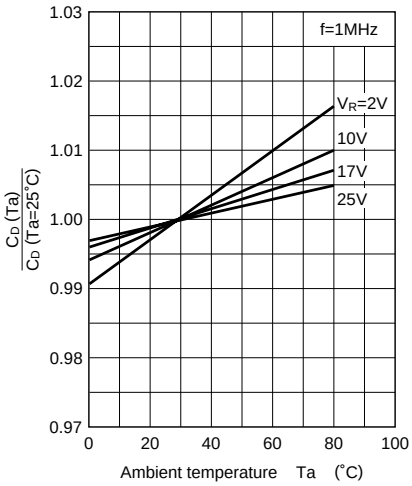
$C_D - V_R$



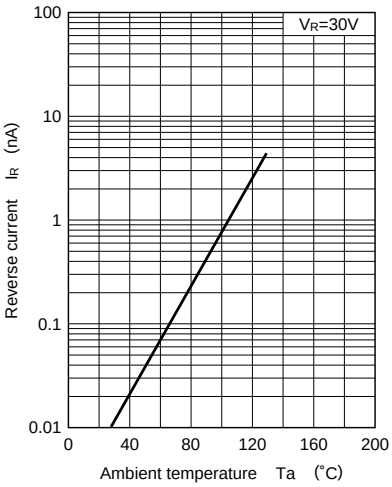
$I_F - V_F$



$C_D - Ta$

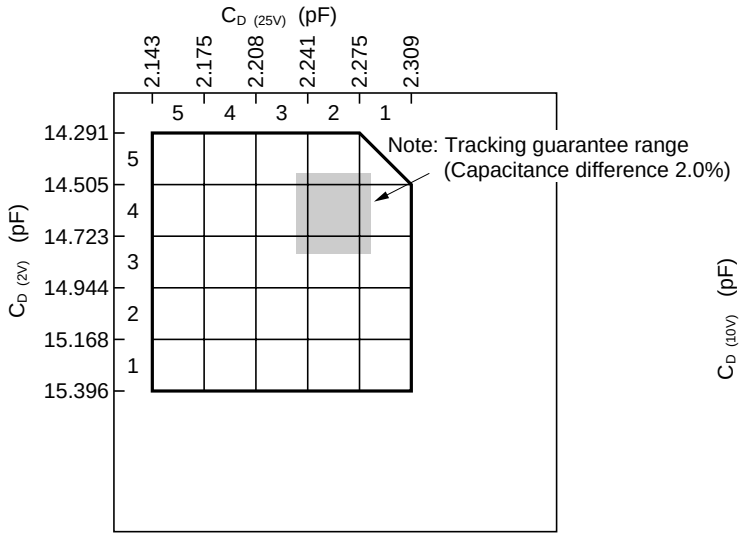


$I_R - Ta$



C_D rank classification

Primary rank classification



Secondary rank classification