

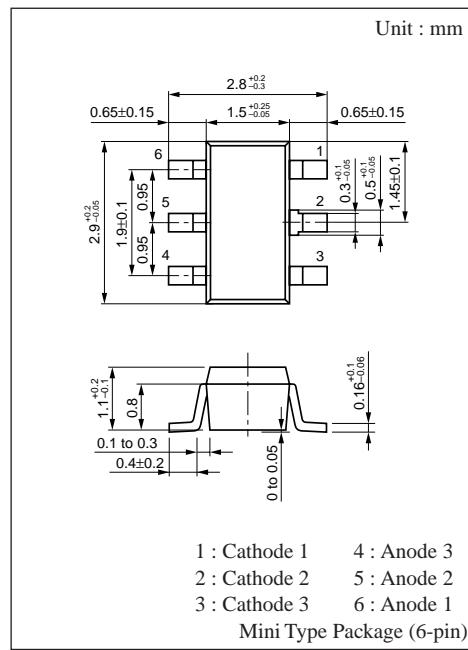
MA344

Silicon epitaxial planer type

For UHF and VHF electronic tuners

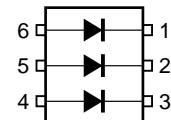
■ Features

- Three elements incorporated in one package (stand alone type)
- Large capacity variation ratio
- Small series resistance r_D
- Mini package, enabling down-sizing of the equipment and automatic insertion through taping



Marking Symbol : 5P

■ Internal Connection



■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 30V$			10	nA
Diode capacitance	$C_{D(3V)}$	$V_R = 3V, f = 1MHz$	11.233		12.781	pF
	$C_{D(25V)}$	$V_R = 25V, f = 1MHz$	2.020		2.367	pF
	$C_{D(10V)}$	$V_R = 10V, f = 1MHz$	4.358		5.422	pF
	$C_{D(17V)}$	$V_R = 17V, f = 1MHz$	2.567		3.100	pF
Capacitance ratio	$C_{D(3V)}/C_{D(25V)}$		4.60		6.15	—
Capacitance difference	$C_{D(17V)}/C_{D(25V)}$		0.37			pF
Diode capacitance deviation	ΔC	$C_D(3V)(10V)(17V)(25V)$			*2	%
Series resistance	r_D^*	$C_D = 9pF, f = 470MHz$	0.55		0.75	Ω

Note 1. Rated input/output frequency : 470MHz

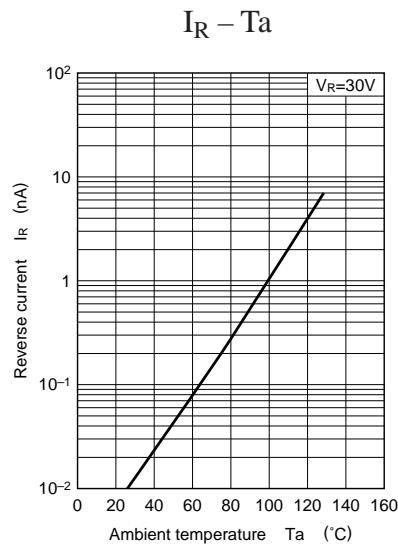
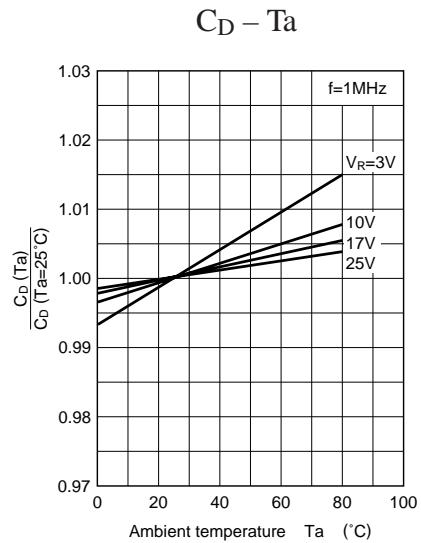
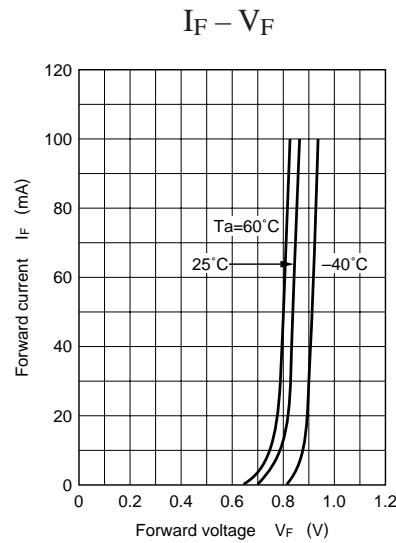
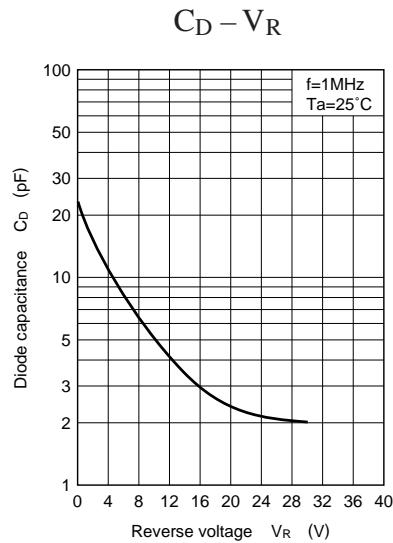
2. Each characteristic is a standard for 1 diode.

3. *1 : r_D measurement device : YHP MODEL 4191A RF IMPEDANCE ANALYZER

4. *2 : 3 Diode capacity deviation is controlled to 2% for the rank B and 3% or less for the rank G.

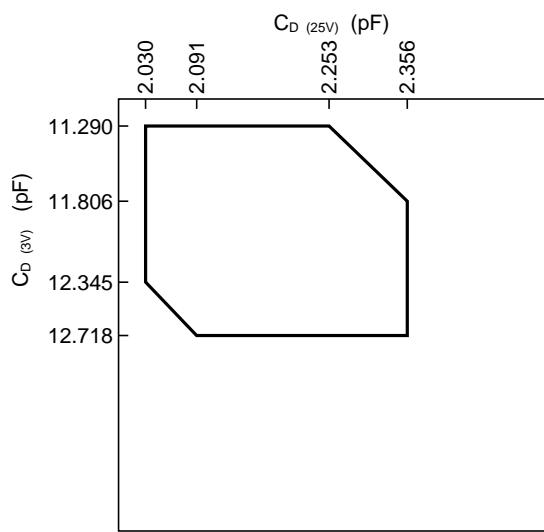
■ Marking





C_D rank classification

Primary rank classification



Secondary rank classification

