

MA342-B, MA342-M

Silicon epitaxial planer type

For UHF and VHF electronic tuners AFC

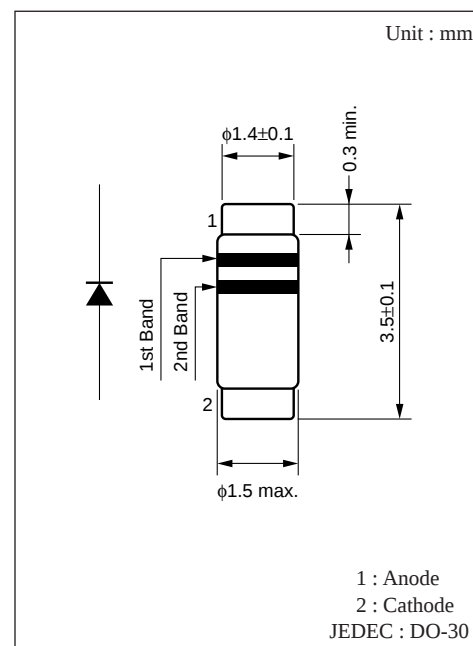
■ Features

- 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
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	– 55 to +150	°C

* $R_L = 2.2k\Omega$, 1 pulse



■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Forward voltage (DC)	V_F	$I_F = 100mA$			1.1	V
Reverse current (DC)	I_R	$V_R = 30V$			10	nA
Terminal capacitance	C_t	$V_R = 2V, f = 1MHz$	10.5		16	pF
		$V_R = 10V, f = 1MHz$	3.3		5.7	
Capacitance ratio	$C_{t(2V)}/C_{t(10V)}^*$		2.8		3.4	—
	$C_{t(6V)}/C_{t(10V)}^*$		1.64			—
Series resistance	r_D	$C_D = 9pF, f = 470MHz$			1.2	Ω

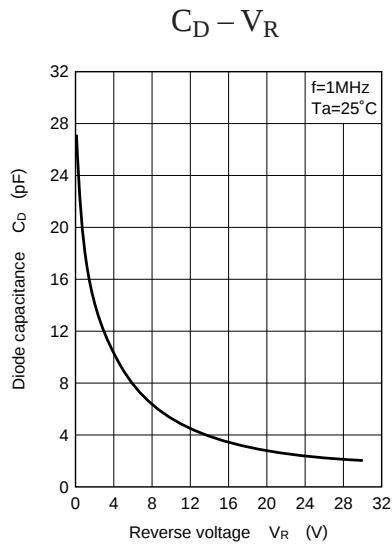
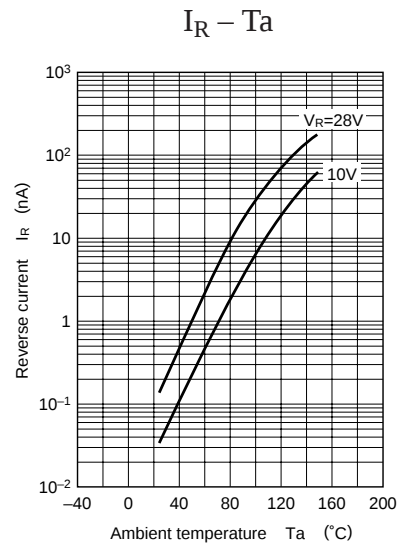
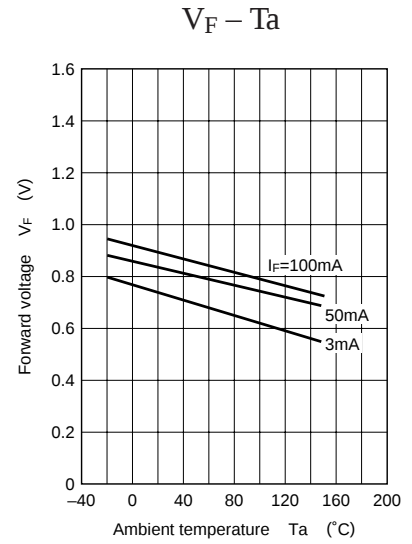
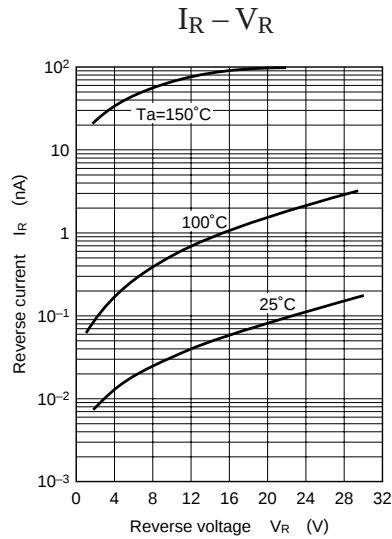
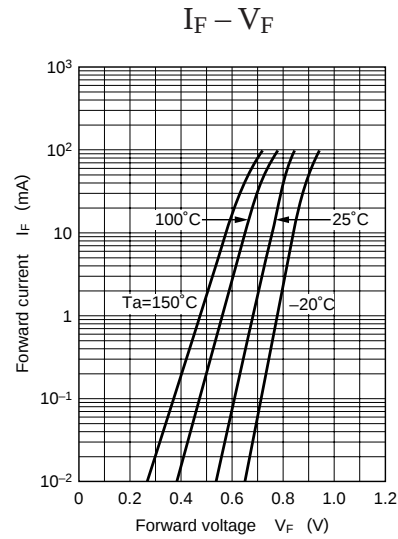
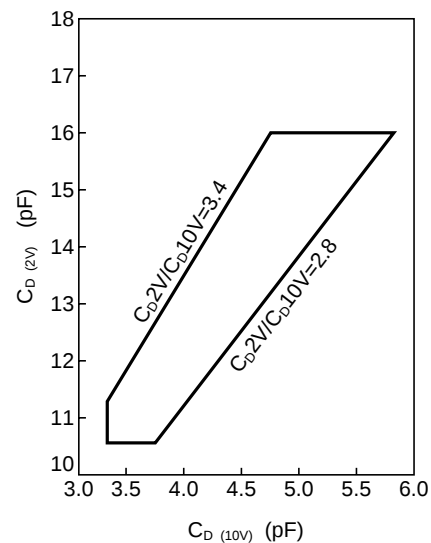
Note 1. Rated input/output frequency : 470MHz

2. * Applicable to the rank M

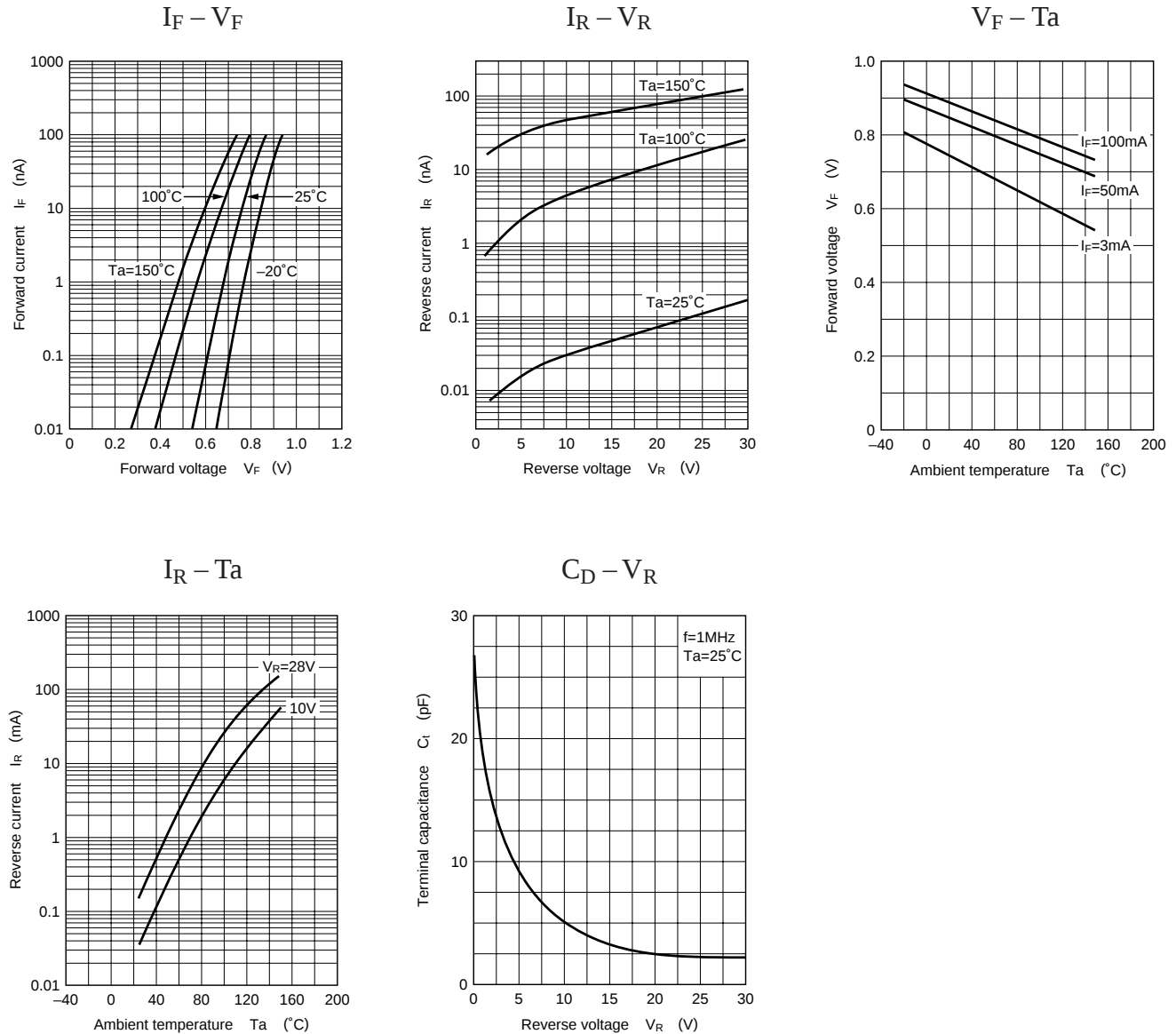
■ Cathode Indication

Type No.		MA342-B	MA342-M
Color	1st Band	Blue	Blue
	2nd Band	Green	Blue

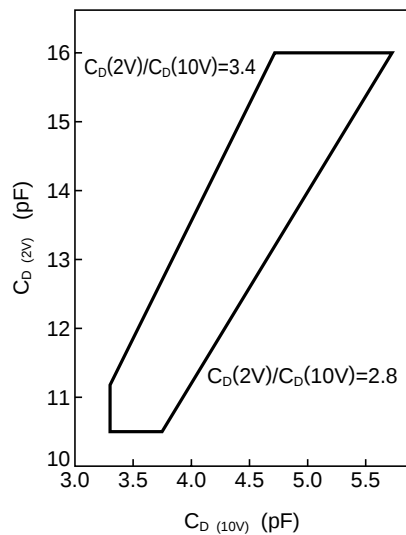
Characteristics chart of MA342-B

 C_D rank classification

Characteristics chart of MA342-M

 C_D rank classification

Primary rank classification



Secondary rank classification

