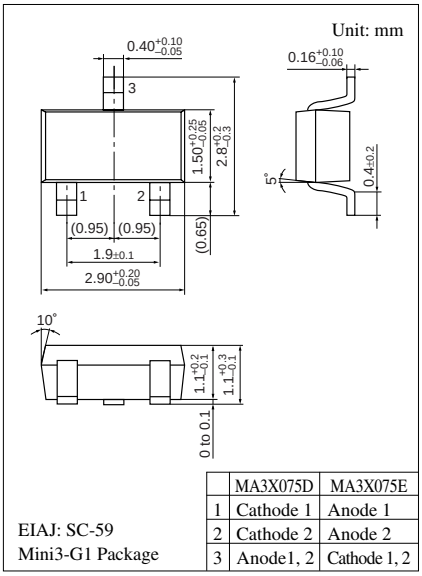
MA3X075D, MA3X075E (MA75WA, MA75WK)

Silicon epitaxial planar type

For band switching

■ Features

- Low forward dynamic resistance r_f
- Less voltage dependence of diode capacity C_D
- Mini type package, allowing downsizing of equipment and automatic insertion through the taping package



	MA3X075D	MA3X075E
1	Cathode 1	Anode 1
2	Cathode 2	Anode 2
3	Anode1, 2	Cathode 1, 2

■ Absolute Maximum Ratings $T_a = 25°C$

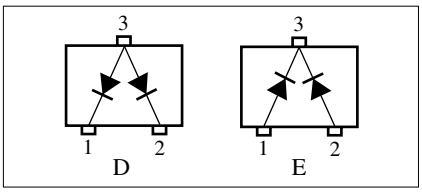
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	35	V
Forward current (DC)	I_F	100	mA
Operating ambient temperature *	T_{opr}	−25 to +85	°C
Storage temperature	T_{stg}	−55 to +150	°C

Note) ∗: Maximum ambient temperature during operation

Marking Symbol

- MA3X075D: M1X
- MA3X075E: M1Y

Internal Connection



■ Electrical Characteristics $T_a = 25°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	V_R = 33 V		0.01	100	nA
Forward voltage (DC)	V_F	I_F = 100 mA		0.92	1.0	V
Diode capacitance	C_D	V_R = 6 V, f = 1 MHz		0.9	1.2	pF
Forward dynamic resistance *	r_f	I_F = 2 mA, f = 100 MHz		0.65	0.85	Ω

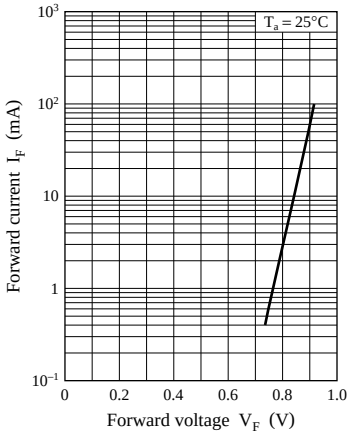
Note) 1. Each characteristic is a standard for individual diode

2. Rated input/output frequency: 100 MHz

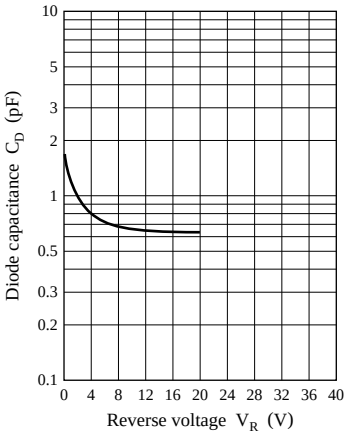
3. ∗: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

Note) The part number in the parenthesis shows conventional part number.

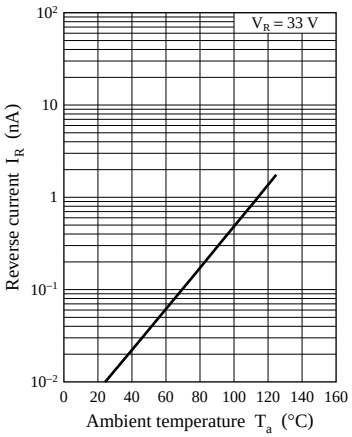
I_F — V_F



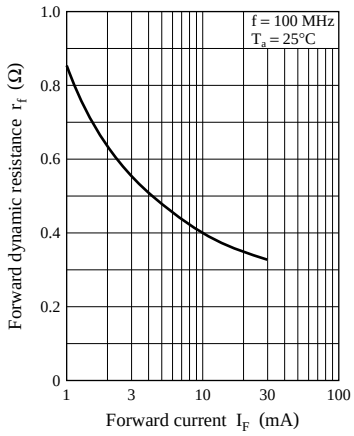
C_D — V_R



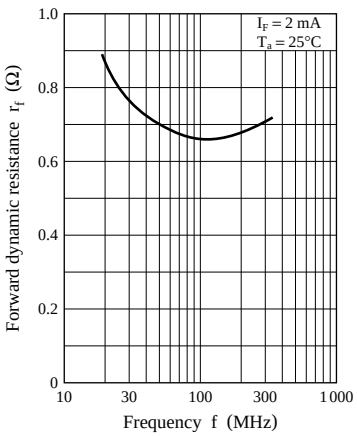
I_R — T_a



r_f — I_F



r_f — f



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