MA3X557 (MA557)

Silicon epitaxial planar type

For UHF and SHF bands AGC

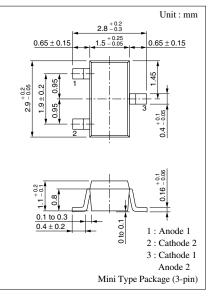
Features

- Small diode capacitance C_D
- Large variable range of forward dynamic resistance r_f
- Mini type package, allowing downsizing of equipment and automatic insertion through the taping package and magazine package

ADSOLUTE MAXIMUM Hattings $T_a = 25 \text{ C}$						
Parameter	Symbol	Rating	Unit			
Reverse voltage (DC)	V _R	40	V			
Peak reverse voltage	V _{RM}	45	V			
Forward current (DC)	I_F	100	mA			
Power dissipation	P _D	150	mW			
Operating ambient temperature*	T _{opr}	-25 to +85	°C			
Storage temperature	T _{stg}	-55 to +150	°C			

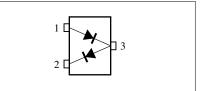
■ Absolute Maximum Ratings T_a = 25°C

Note) *: Maximum ambient temperature during operation



Marking Symbol: M30

Internal Connection



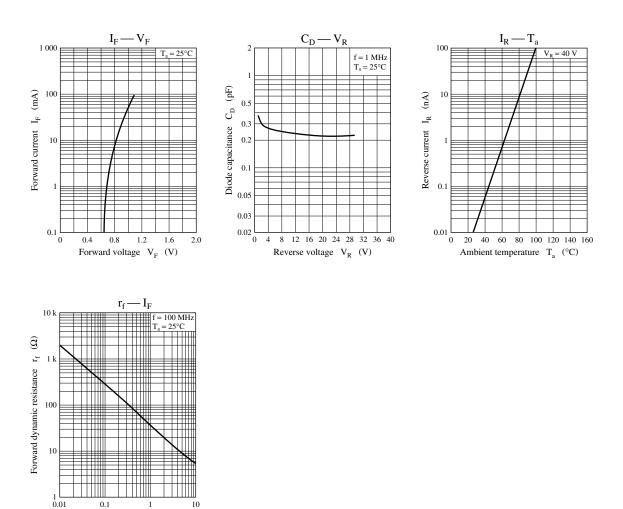
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	$V_R = 40 V$			100	nA
Forward voltage (DC)	V _F	$I_F = 100 \text{ mA}$		1.05	1.2	V
Diode capacitance	CD	$V_{R} = 15 V, f = 1 MHz$		0.3	0.5	pF
Forward dynamic resistance*	r _{f1}	$I_F = 10 \ \mu A, f = 100 \ MHz$	1	2		kΩ
	r _{f2}	$I_F = 10 \text{ mA}, f = 100 \text{ MHz}$		6	10	Ω

Electrical Characteristics $T_a = 25^{\circ}C$

Note) 1. Rated input/output frequency: 100 MHz

2. Each characteristic is a standard for individual diode

3. *: rf measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER



Forward current IF (mA)

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