MA3X555 (MA555)

Silicon epitaxial planar type

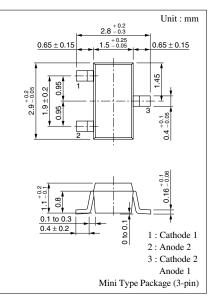
For UHF and SHF bands AGC

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

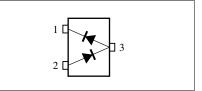
Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V _R	40	V
Peak reverse voltage	V _{RM}	45	V
Forward current (DC)	I_F	100	mA
Power dissipation	P_{D}	150	mW
Operating ambient temperature	T _{opr}	-25 to +85	°C
Storage temperature	T _{stg}	-55 to +150	°C

Absolute Maximum Ratings $T_a = 25^{\circ}C$



Marking Symbol: M2H

Internal Connection

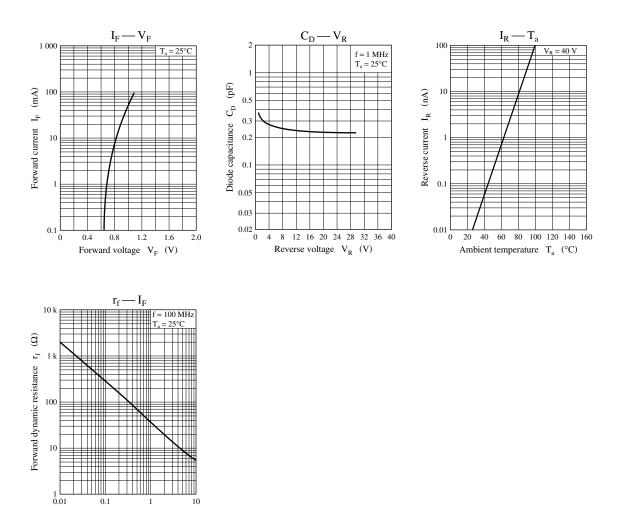


Parameter Symbol Conditions Min Max Unit Тур $V_R = 40 V$ 100 Reverse current (DC) I_R nA $I_{F} = 100 \text{ mA}$ 1.05 1.2 v Forward voltage (DC) V_F $V_R = 15 V, f = 1 MHz$ pF Diode capacitance 0.3 0.5 C_D Forward dynamic resistance* $I_F = 10 \ \mu A$, f = 100 MHz 1 2 kΩ $r_{\rm fl}$ $I_F = 10 \text{ mA}, f = 100 \text{ MHz}$ 6 10 Ω r_{f2}

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

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

2. *: r_f measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER



Forward current IF (mA)

1

10

0.1

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