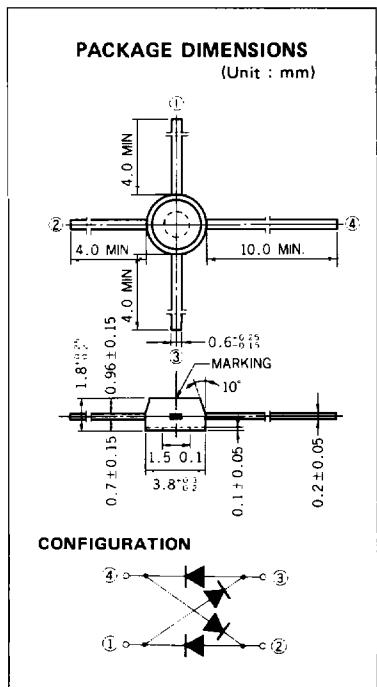


UHF MODULATOR DIODE QUAD **ND487C1-3R**

UHF DOUBLE BALANCED MODULATOR SILICON EPITAXIAL SCHOTTKY BARRIER DIODE QUAD



The ND487C1-3R is schottky barrier diode quad interconnected in cross configuration, especially designed for use in double balanced mixers, phase detectors, AM modulators, and pulse modulators.

FEATURES

- Monolithic array
- Diode cross configuration
- Wideband operation
- Small size package
- Low cost

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

DC Power Dissipation	P_d	75	mW/Junction
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-65 to +150	$^\circ\text{C}$
Soldering Temperature		230	$^\circ\text{C}$ for 10 s

7

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

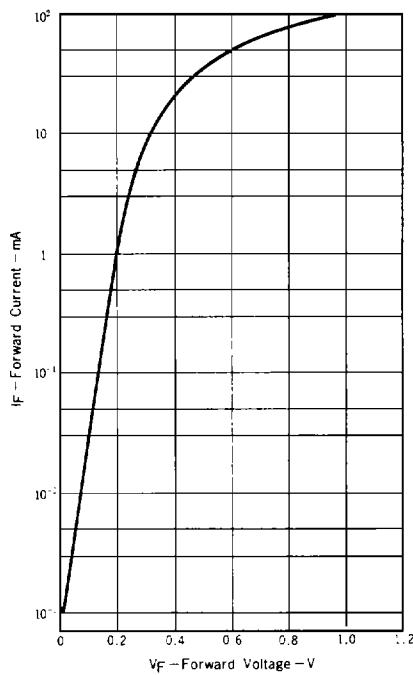
CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Forward Voltage	V_{F1}			0.7	V	$I_F = 50 \text{ mA}$
Forward Voltage	V_{F2}		0.2	0.3	V	$I_F = 1.0 \text{ mA}$
Delta Forward Voltage	ΔV_{F2} (NOTE1)			0.02	V	$I_F = 1.0 \text{ mA}$
Terminal Capacitance	C_t (NOTE2)		0.9	1.2	pF	$V_R = 0, f = 1.0 \text{ MHz}$
Delta Terminal Capacitance	ΔC_t (NOTE1)			0.2	pF	$V_R = 0, f = 1.0 \text{ MHz}$

NOTE 1 : Difference of V_F , C_t

2 : Measurement terminal ① - ④ ② - ③

TYPICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

FORWARD CURRENT vs. FORWARD VOLTAGE



CONVERSION LOSS vs. LOCAL POWER

