PIN diode RN731V

Applications

VHF/UHF band variable attenuators and AGC.

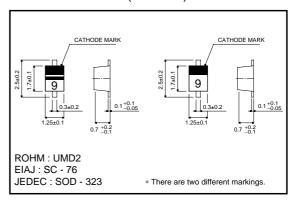
Features

- 1) Small surface mounting type. (UMD2)
- 2) Low high-frequency forward resistance (rF) / low capacitance (CT).
- 3) High reliability.

Construction

Silicon diffusion junction

●External dimensions (Units : mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
DC reverse voltage	VR	50	V
DC forward current	lF	50	mA
Power dissipation	Pd	100	mW
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55~+125	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	VF	_	_	1.0	V	I==50mA
Reverse current	IR	_	_	100	nA	V _R =50V
Capacitance between terminals	Ст	_	_	0.4	pF	V _R =35V, f=1MHz
Forward operating resistance	ľF	-	-	7	Ω	I _F =10mA, f=100MHz

●Electrical characteristic curves (Ta=25°C)

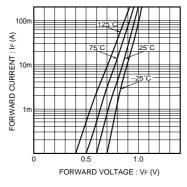


Fig.1 Forward characteristics

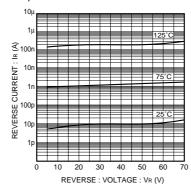


Fig.2 Reverse characteristics

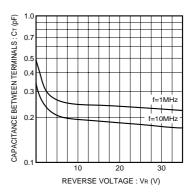


Fig.3 Capacitance between terminals characteristics (I)

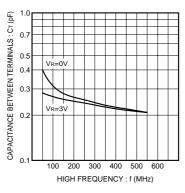


Fig 4 Capacitance between terminals characteristics (II)

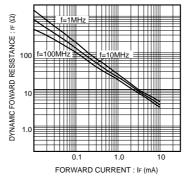


Fig.5 High frequency characteristics

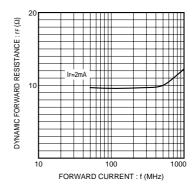


Fig.6 Forward operating resistance characteristics

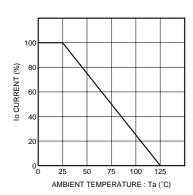


Fig.7 Derating curve (mounting on glass epoxy PCBs)

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