

# PIN Diode

## RN739D

### ●Applications

VHF/UHF band variable attenuators and AGC

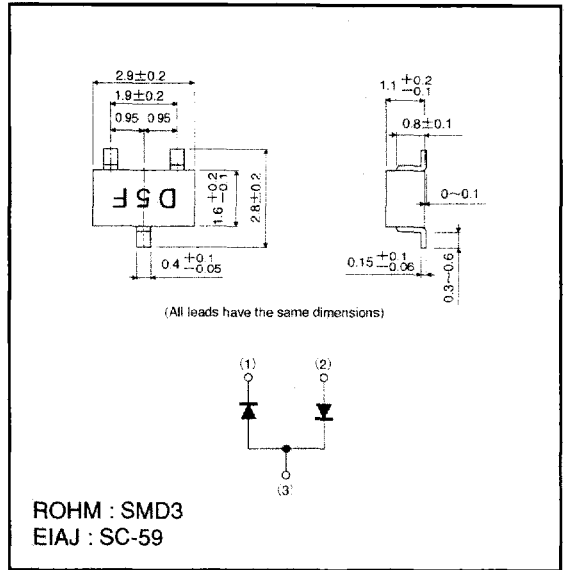
### ●Features

- 1) Designed for mounting on small surface areas SMD3
- 2) Low high-frequency forward resistance/low capacitance
- 3) High reliability

### ●Construction

Silicon diffusion junction

### ●External dimensions (Units: mm)



### ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
DC reverse voltage	$V_R$	50	V
DC forward voltage	$I_F$	50	mA
Power dissipation	$P_d$	100	mW
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55~+125	°C

### ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	—	0.93	1.0	V	$I_F=50\text{mA}$
Reverse current	$I_R$	—	0.01	100	nA	$V_R=50\text{V}$
Capacitance between terminals	$C_T$	—	0.23	0.4	pF	$V_R=35\text{V}$ , $f=1\text{MHz}$
Forward operating resistance	$r_F$	—	3.5	7	$\Omega$	$I_F=10\text{mA}$ , $f=100\text{MHz}$

●Electrical characteristic curves

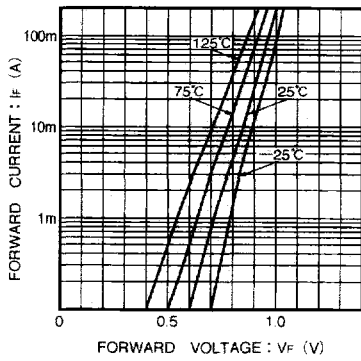


Fig. 1 Forward temperature characteristic

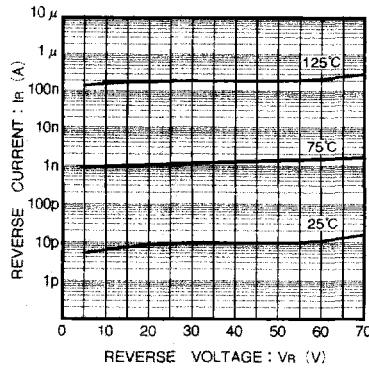


Fig. 2 Reverse temperature characteristic

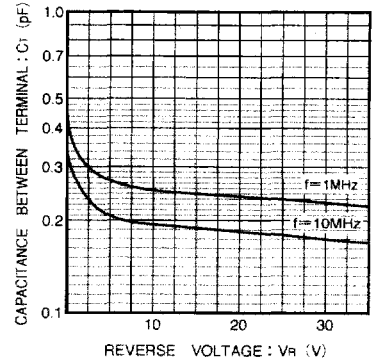


Fig. 3 Capacitance between terminals characteristic 1

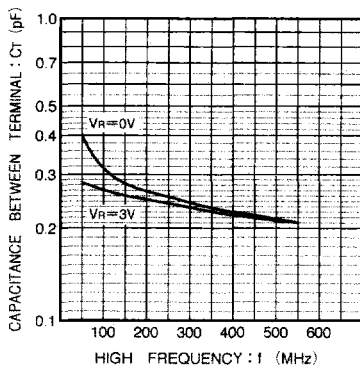


Fig. 4 Capacitance between terminals characteristic 2

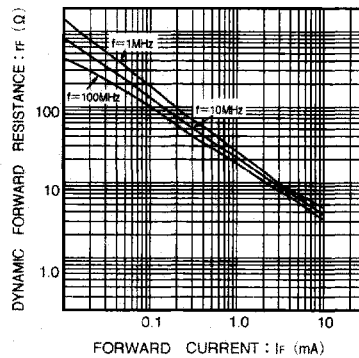


Fig. 5 High frequency characteristic

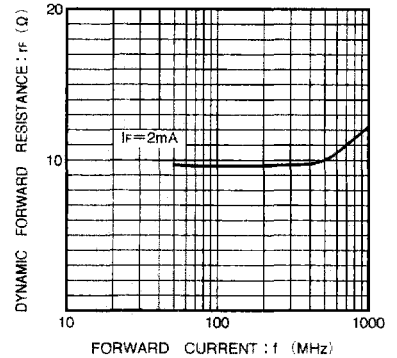


Fig. 6 Forward operating resistance characteristic

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