



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PIN diode

RN739F / RN739D

●Applications

VHF / UHF band variable attenuators and AGC

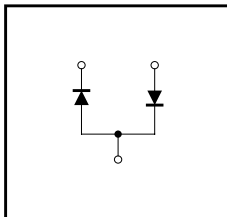
●Features

- 1) Multiple diodes in one small surface mount package.
(UMD3, SMD3)
- 2) Low high-frequency forward resistance (r_F) / low capacitance (C_T).
- 3) High reliability.

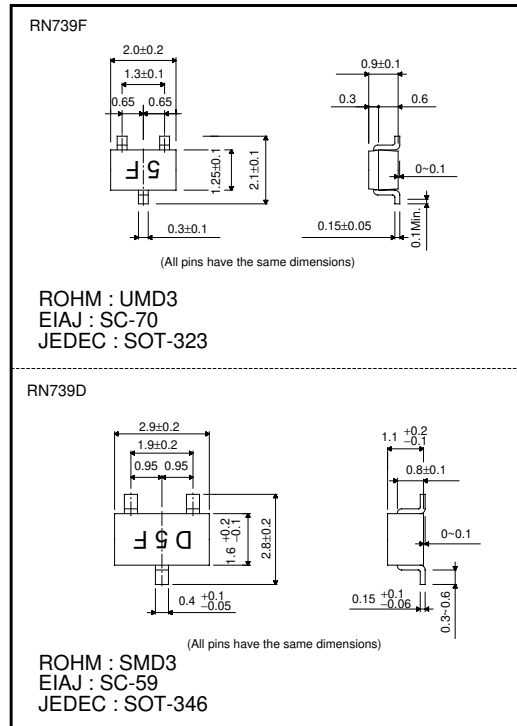
●Construction

Silicon diffusion junction

●Circuit



●External dimensions (Units : mm)

●Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

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

●Electrical characteristics ($T_a = 25^\circ\text{C}$)

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

Diodes

●Electrical characteristic curves (Ta = 25°C)

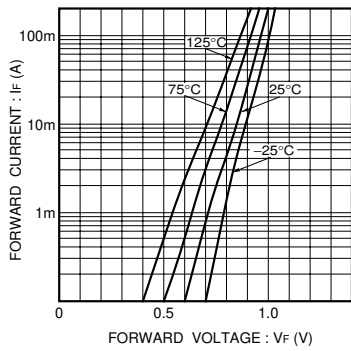


Fig.1 Forward characteristics

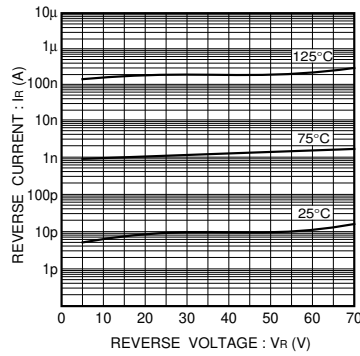


Fig.2 Reverse characteristics

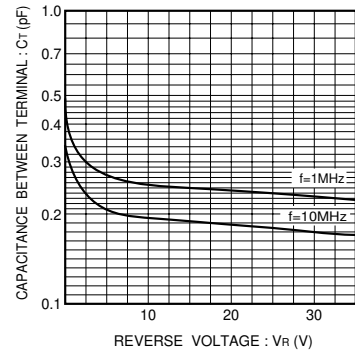


Fig.3 Capacitance between terminals characteristics 1

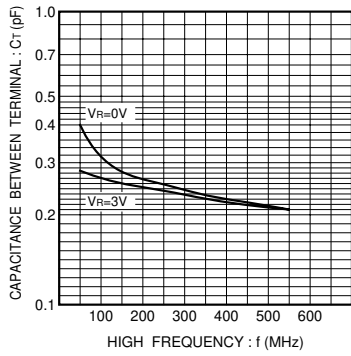


Fig.4 Capacitance between terminals characteristics 2

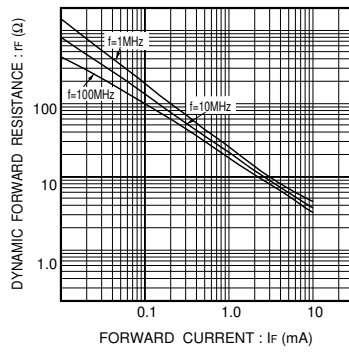


Fig.5 High frequency characteristics

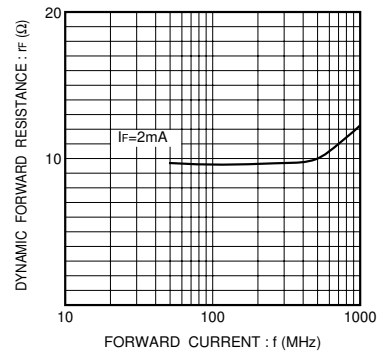


Fig.6 Forward operating resistance characteristics

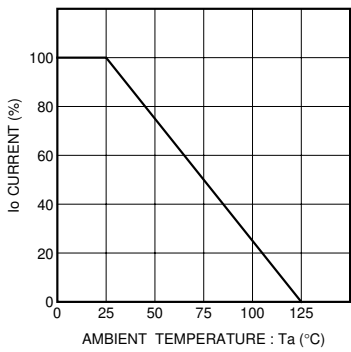


Fig.7 Derating curve (mounting on glass epoxy PCBs)