

帶阻三極管 Resistive Transistors

Resistive Transistors 帶阻三極管

PNP Silicon (FHRA241~FHRA246)

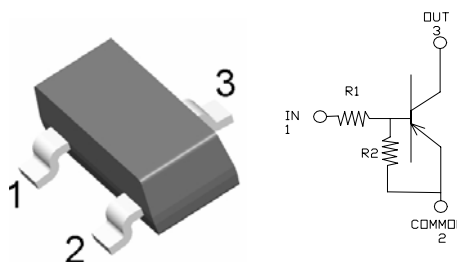
DESCRIPTION & FEATURES 概述及特點

With Built-in Bias Resistors 內部基極帶阻
 Simplify Circuit Design 簡單的回路設計
 Reduce a Quantity of Parts and Manufacturing Process
 簡化了外部元件及貼片過程

SOT-23

PIN ASSIGNMENT 引腳說明

PIN NAME 管腳符號	PIN NUMBER 引腳序號	FUNCTION 功能
	SOT-23	
IN	1	Input
COMMON	2	Common
OUT	3	Output



MAXIMUM RATINGS(T_a=25°C) 最大額定值

CHARACTERISTIC 特性參數		Symbol 符號	Rating 額定值	Unit 單位
Output Voltage 輸出電壓		V _O	-50	V
Input Voltage 輸入電壓	FHRA241	V _I	-10~10	V
	FHRA242		-12~10	
	FHRA243		-20~10	
	FHRA244		-30~10	
	FHRA245		-10~5	
	FHRA246		-12~6	
Output Current 輸出電流		I _O	-800	mA
Power Dissipation 耗散功率		P _D	200	mW
Junction Temperature 結溫		T _J	150	°C
Storage Temperature Range 儲存溫度		T _{STG}	-55~150	°C

DEVICE MARKING 打標

TYPE 型號	FHRA241	FHRA242	FHRA243	FHRA244	FHRA245	FHRA246
MARK 打標	PQ	PR	PS	PT	PU	PV

ELECTRICAL CHARACTERISTICS 電特性

(T_a=25°C unless otherwise noted 如無特殊說明，溫度為 25°C)

Characteristic 特性參數		Symbol 符號	Test Condition 測試條件	Min 最小值	Type 典型值	Max 最大值	Unit 單位
Output Cutoff Current 輸出截止電流		I _{O(OFF)}	V _O =-30V, V _I =0	-	-	-500	nA
Transition Frequency 特徵頻率		f _T	V _O =-10V, I _O =-5mA	-	200	-	MHz
Output Voltage 輸出電壓		V _{O(ON)}	I _O =-50mA, I _I =-2.5mA	-	-	-0.3	V
Input Voltage (OFF) 輸入電壓(OFF)	FHRA241	V _{I(OFF)}	V _O =-5V, I _O =-0.1mA	-0.5	-	-	V
	FHRA242			-0.5	-	-	
	FHRA243			-0.5	-	-	
	FHRA244			-0.5	-	-	
	FHRA245			-0.3	-	-	
	FHRA246			-0.3	-	-	
Input Voltage (ON) 輸入電壓(ON)	FHRA241	V _{I(ON)}	V _O =-0.3V, I _O =-20mA	-	-	-3.0	V
	FHRA242			-	-	-3.0	
	FHRA243			-	-	-3.0	
	FHRA244			-	-	-3.0	
	FHRA245			-	-	-3.0	
	FHRA246			-	-	-2.0	
Input Current		I _I	V _I =-5V	-	-	-7.2	mA

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輸入電流	FHRA242			-	-	-3.8	
	FHRA243			-	-	-1.8	
	FHRA244			-	-	-0.88	
	FHRA245			-	-	-7.2	
	FHRA246			-	-	-3.6	
DC Current Gain 直流電流增益	FHRA241	G _i	Vo=-5V , Io=-50mA	33	-	-	-
	FHRA242			39	-	-	
	FHRA243			47	-	-	
	FHRA244			56	-	-	
	FHRA245			56	-	-	
Input Resistance 輸入電阻	FHRA241	R ₁		0.7	1	1.3	kΩ
	FHRA242			1.54	2.2	2.86	
	FHRA243			3.29	4.7	6.11	
	FHRA244			7	10	13	
	FHRA245			0.7	1	1.3	
	FHRA246			1.54	2.2	2.86	
Resistance Ratio 電阻比	FHRA241	R _{2/R1}		0.8	1	1.2	-
	FHRA242			0.8	1	1.2	
	FHRA243			0.8	1	1.2	
	FHRA244			0.8	1	1.2	
	FHRA245			8	10	12	
	FHRA246			3.6	4.5	5.5	