

isc Silicon NPN RF Transistor

2SC3793

DESCRIPTION

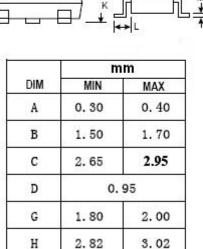
- Low Noise
- High Gain
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Designed for use in UHF local oscillator.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)					
SYMBOL	PARAMETER	VALUE	UNIT	<u>+</u>	
V _{сво}	Collector-Base Voltage	20	v		
V _{CEO}	Collector-Emitter Voltage	15	V		
V _{EBO}	Emitter-Base Voltage	3	V		
lc	Collector Current-Continuous	50	mA		
Pc	Collector Power Dissipation @Tc=25°C	0.15	W		
TJ	Junction Temperature	150	°C		
T _{stg}	Storage Temperature Range	-55~150	°C		

	SOT-23-3L package
$ \begin{array}{c} \rightarrow \\ 3 \\ \hline \\ Marking \\ \hline \\ 1 \\ \hline \\ G \end{array} $	1: Base c 2: Emitter 3: Collector
і ←── н ──→	т м



1.05

0.10

1.25

0.20

0.70

K

L М ┘╚╪

isc website: www.iscsemi.cn



isc Silicon NPN RF Transistor

2SC3793

ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 10 μ A ; I _E = 0	20			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I_{C} = 1mA ; R_{BE} = ∞	15			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 20mA ; I _B = 4mA			0.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = 15V; I _E = 0			1	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			1	μA
h _{FE}	DC Current Gain	Ic= 5mA ; Vce= 10V	30		200	
f _T	Current-Gain—Bandwidth Product	I _C = 5mA ; V _{CE} = 10V		2.9		GHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f= 1.0MHz		0.7	1.0	pF

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.