

isc Silicon NPN RF Transistor

UPA805T

DESCRIPTION

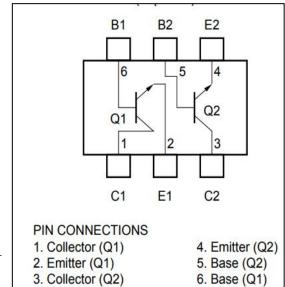
- · With SOT-363 packaging
- · Low voltage use
- · Ultra super mini mold package
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

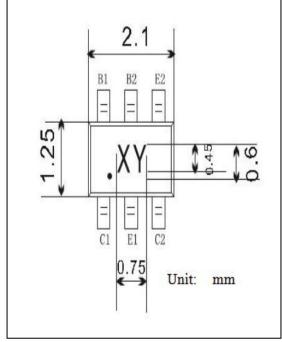
APPLICATIONS

 Designed for use in low noise and small signal amplifiers from VHF band to UHF band

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	9	V
V _{CEO}	Collector-Emitter Voltage	6	V
V _{EBO}	Emitter-Base Voltage	2	V
lc	Collector Current-Continuous	10	mA
Pc	Collector Power Dissipation @T _C =25℃	120	mW
TJ	Max.Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-60~150	$^{\circ}\!\mathbb{C}$







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ELECTRICAL CHARACTERISTICS

 T_c =25℃ unless otherwise specified, Pulse Measurement PW ≤ 350 μs, Duty Cycle ≤ 2 %

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
Ісво	Collector Cutoff Current	V _{CB} = 5V; I _E = 0			0.1	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 1V; I _C = 0			0.1	μА
h _{FE}	DC Current Gain	I _C = 5mA ; V _{CE} = 3V	90		150	
f⊤	Current-Gain—Bandwidth Product	I _C = 7mA ; V _{CE} = 3V ;f=2.0GHz		12		GHz
Cre	Feed-Back Capacitance	I _E = 0 ; V _{CB} = 3V;f= 1.0MHz		0.4	0.5	pF
S _{21e} ²	Insertion Power Gain	I _C = 5mA ; V _{CE} = 3V;f= 2.0GHz	7	9		dB
NF	Noise Figure	I _C = 3mA ; V _{CE} = 3V;f= 1.0GHz		2	4.0	dB



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