

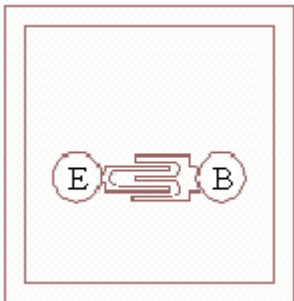
## C4083 Silicon NPN Epitaxial Transistor

Description :The C4083 is designed for UHF general amplifier applications

Features: ●Excellent  $h_{FE}$  Linearity

●Excellent  $f_T$  characteristic

### Chip Appearance

	Chip Size		360um × 360um
	Chip Thickness		210 ± 20um
	Bonding Pad Size	Base	φ 65um
		Emitter	φ 65um
	Front Metal		AlSiCu
	Backside Metal		Au (As)
	Scribe line width		50um
	Wafer Size		6 inch

### Electrical Characteristics( Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Max	Unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=10V, I_E=0$		0.1	uA
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=2V, I_C=0$		0.1	uA
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C=10uA$	20		V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=1mA$	12		V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=10uA$	3		V
DC Current Gain	$h_{FE}$	$V_{CE}=3V, I_C=7mA$	60	200	
Collector Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=5mA$		0.5	V