

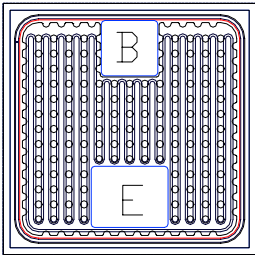
C2383 Silicon NPN Epitaxial Transistor

Description :The C2383 is designed for color TV class B sound output applications

Features: ●High voltage: $V_{CEO}=160V$

●Complementary to A1013

Chip Appearance

	Chip Size		1100um × 1100um
	Chip Thickness		210 ± 20um
	Bonding Pad Size	Base	240um × 240um
		Emitter	330um × 260um
	Front Metal		Al
	Backside Metal		Au (As)
	Scribe line width		60um
Wafer Size		6 inch	

Electrical Characteristics($T_a=25^{\circ}C$)

Characteristic	Symbol	Test Condition	Min	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB}=150V, I_E=0$		1.0	uA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=5V, I_C=0$		1.0	uA
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=0.1mA$	160		V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=10mA$	160		V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=0.1mA$	5.0		V
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=200mA$	60	320	
Collector Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$		1.5	V