# Chroma amplifier transistor (300V, 0.1A) 2SC3415S / 2SC4015

#### Features

- 1) High breakdown voltage. (BVcEo=300V)
- 2) Low collector output capacitance. (Typ. 3pF at VcB=30V)
- 3) Ideal for chroma circuit.

#### ● Absolute maximum ratings (Ta=25°C)

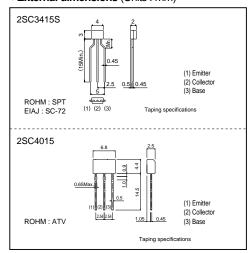
Paramet	ter	Symbol	Limits	Unit	
Collector-base voltage		Vсво	300	V	
Collector-emitter voltage		Vceo	300	V	
Emitter-base voltage		VEBO	5	V	
Collector current		lc	100	mA	
Collector power dissipation	2SC3415S	Pc.	0.3	w	
	2SC4015	PC	1 *		
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55~+150	°C	

<sup>\*</sup> Printed circuit board 1.7mm thick, collector plating 1cm² or larger

#### ● Packaging specifications and hFE

Type	2SC3415S	2SC4015
Package	SPT	ATV
hre	NP	N
Code	TP	TV2
Basic ordering unit (pieces)	5000	2500

### ●External dimensions (Units : mm)



#### ● Electrical characteristics (Ta=25°C)

Parameter		Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage		ВУсво	300	-	-	V	Ic=50μA	
Collector-emitter breakdown voltage		BVceo	300	-	-	V	Ic=100μA	
Emitter-base breakdown voltage		BVEBO	5	-	-	V	Iε=50μA	
Collector cutoff current		Ісво	-	-	0.5	μА	Vcb=200V	
Emitter cutoff current		IEBO	-	-	0.5	μА	V <sub>EB</sub> =4V	
Collector-emitter saturation voltage		VCE(sat)	-	-	2	V	Ic/Is=50mA/5mA	
DC current	2SC3415S	hre	56	-	180	-	Vce/lc=10V/10mA	
transfer ratio	2SC4015	TIFE	56	-	120	-		
Gain bandwidth product		f⊤	50	100	-	MHz	VcE=30V, IE=-10mA, f=100MHz	
Collector output capacitance		Cob	-	3	-	pF	Vcb=30V, IE=0A, f=1MHz	

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