Chroma amplifier transistor (300V, 0.1A)

2SC4061K / 2SC3415S / 2SC4015

●Features

1) High breakdown voltage. (BV_{CEO}=300V)
2) Low collector output capacitance.
   (Typ. 3pF at V_{CB}=30V)
3) Ideal for chroma circuit.

●Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit
Collector-base voltage		V_{CBO}	300	V
Collector-emitter voltage		V_{CEO}	300	V
Emitter-base voltage		V_{EBO}	5	V
Collector current		I_C	100	mA
Collector power dissipation	2SC4061K	P_C	0.2	W
	2SC3415S		0.3	
	2SC4015		1 *	
Junction temperature		Tj	150	°C
Storage temperature		Tstg	−55~+150	°C

* Printed circuit board 1.7mm thick, collector plating 1cm² or larger.

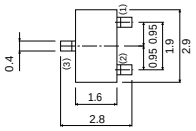
●Packaging specifications and h_{FE}

Type	2SC4061K	2SC3415S	2SC4015
Package	SMT3	SPT	ATV
h_{FE}	NP	NP	N
Marking	AN*	–	–
Code	T146	TP	TV2
Basic ordering unit (pieces)	3000	5000	2500

* Denotes h_{FE}

●External dimensions (Units : mm)

2SC4061K

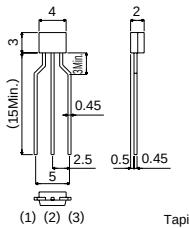


(1) Emitter
(2) Base
(3) Collector

ROHM : SMT3
EIAJ : SC-59

Each lead has same dimensions

2SC3415S

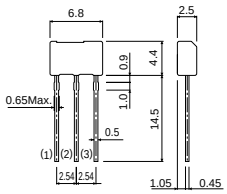


(1) Emitter
(2) Collector
(3) Base

ROHM : SPT
EIAJ : SC-72

Taping specifications

2SC4015



(1) Emitter
(2) Collector
(3) Base

ROHM : ATV

Taping specifications

●Electrical characteristics (Ta=25°C)

Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage		BV_{CBO}	300	–	–	V	I_C=50μA
Collector-emitter breakdown voltage		BV_{CEO}	300	–	–	V	I_C=100μA
Emitter-base breakdown voltage		BV_{EBO}	5	–	–	V	I_E=50μA
Collector cutoff current		I_{CBO}	–	–	0.5	μA	V_{CB}=200V
Emitter cutoff current		I_{EBO}	–	–	0.5	μA	V_{EB}=4V
Collector-emitter saturation voltage		$V_{CE(sat)}$	–	–	2	V	I_C/I_B=50mA/5mA
DC current transfer ratio	2SC4061K, 2SC3415S	h_{FE}	56	–	180	–	V_{CE}/I_C=10V/10mA
	2SC4015		56	–	120	–	
Gain bandwidth product		f_T	50	100	–	MHz	V_{CE}=30V, I_E=-10mA, f=100MHz
Collector output capacitance		Cob	–	3	–	pF	V_{CB}=30V, I_E=0A, f=1MHz

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