















**ESD** 

**TVS** 

MOS

LDO

Diode

Sensor

DC-DC

# **Product Specification**

Domestic Part Number	EV2SC2714-X-S1
Overseas Part Number	2SC2714-X
▶ Equivalent Part Number	2SC2714-X

"S1" means SOT-23

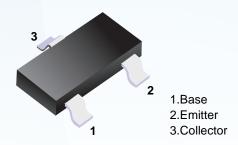




#### NPN Transistors

### ■ Features

- Collector Current Capability Ic=20mA
- Collector Emitter Voltage VcEo=30V



■ Simplified outline(SOT-23)

#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit	
Collector - Base Voltage	Vсво	40		
Collector - Emitter Voltage	VCEO	30	V	
Emitter - Base Voltage	VEBO	4		
Collector Current - Continuous	Ic	20	mA	
Collector Power Dissipation	Pc	100	mW	
Thermal Resistance from Junction to Ambient	Rеја	1000	°C/W	
Junction Temperature	TJ 125		°°	
Storage Temperature Range	Tstg	-55 to 125		

#### ■ Electrical Characteristics Ta = 25°C

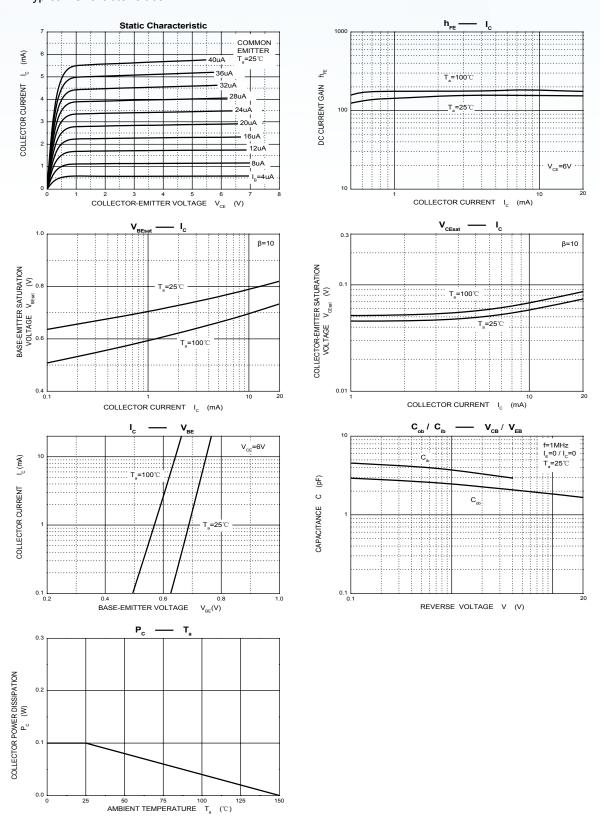
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector- base breakdown voltage	Vсво	Ic= 100 μA, IE= 0	40			
Collector- emitter breakdown voltage	VCEO	Ic= 1 mA, I <sub>B</sub> = 0	30			V
Emitter - base breakdown voltage	Vево	IE= 100 μ A, IC= 0	4			
Collector-base cut-off current	Ісво	Vcb= 18 V , IE= 0			0.5	uA
Emitter cut-off current	ІЕВО	VEB= 4V , IC=0			0.5	
Collector-emitter saturation voltage	VCE(sat)	Ic=100 mA, I <sub>B</sub> =10mA			0.4	· V
Base - emitter saturation voltage	VBE(sat)	Ic=100 mA, I <sub>B</sub> =10mA			1.2	V
DC current gain	hFE	VcE= 6V, Ic= 1mA	40		200	
Noise Figure	NF	VcE= 6V, IE= -1mA,f=100MHz		2.5	5	dB
Reverse Transfer capacitance	Cre	Vcb= 6V, IE= 0,f=1MHz		0.7		pF
Transition frequency	f⊤	VCE= 6V, IC= 1mA		550		MHz

#### ■ Classification of hfe

Туре	EV2SC2714-R-S1	EV2SC2714-O-S1	EV2SC2714-Y-S1
Range	40-80	70-140	100-200
Marking	QR	QO	QY

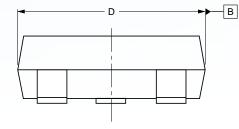


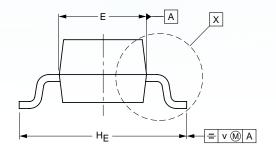
#### ■ Typical Characterisitics

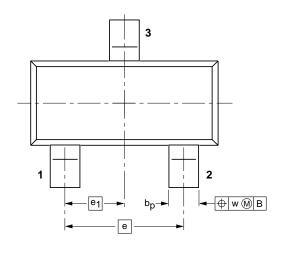


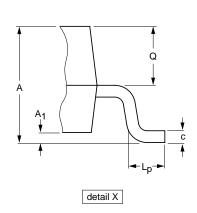


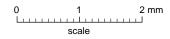
#### **■ SOT-23**











#### DIMENSIONS (mm are the original dimensions)

UNIT	Α	A <sub>1</sub> max.	bp	С	D	E	е	e <sub>1</sub>	HE	Lp	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1



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