Medium Power Transistor (32V, 0.5A) 2SC1741S

Features

1) High IcMax.

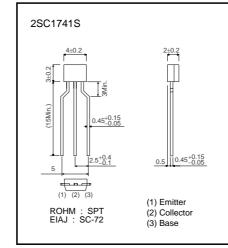
ICMax. = 0.5A

2) Low VCE(sat). Optimal for low voltage operation.

3) Complements the 2SA1036K / 2SA1577 / 2SA854S.

Structure

Epitaxial planar type NPN silicon transistor



• External dimensions (Units : mm)

* Denotes hre

Limits Unit Parameter Symbol Collector-base voltage 40 V Vсво Collector-emitter voltage 32 V VCEO Emitter-base voltage Vево 5 V Collector current lc 0.5 A * Collector power dissipation 0.3 W Pc Junction temperature °C Тj 150 Storage temperature °C Tstg -55 to +150

• Absolute maximum ratings (Ta = 25°C)

* Pc must not be exceeded.

Transistors

•Electrical characteristics (Ta = 25°C)

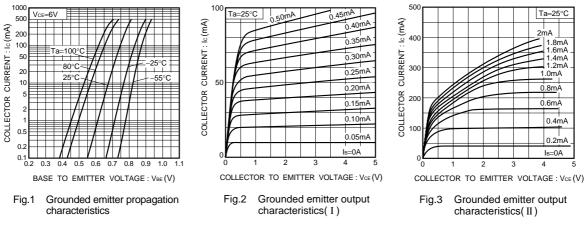
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	40	_	-	V	Ic = 100µA
Collector-emitter breakdown voltage	BVCEO	32	_	-	V	Ic=1mA
Emitter-base breakdown voltage	ВVево	5	_	-	V	Ιε = 100μΑ
Collector cutoff current	Ісво	-	_	1	μA	Vcb = 20V
Emitter cutoff current	Іево	-	_	1	μΑ	V _{EB} = 4V
DC current transfer ratio	hfe	120	_	390	-	Vce = 3V, Ic = 100mA
Collector-emitter saturation voltage	VCE(sat)	-	_	0.6	V	Ic/IB = 500mA/50mA
Transition frequency	f⊤	-	250	-	MHz	Vce = 5V, Ie = -20mA, f = 100MHz
Output capacitance	Cob	-	6.5	-	pF	$V_{CB} = 10V, I_E = 0A, f = 1MHz$

Packaging Specifications and hFE

		Package	Taping
		Code	TP
Туре	hfe	Basic ordering unit (pieces)	5000
2SC1741S	QR		0

hee values are classified as follows:

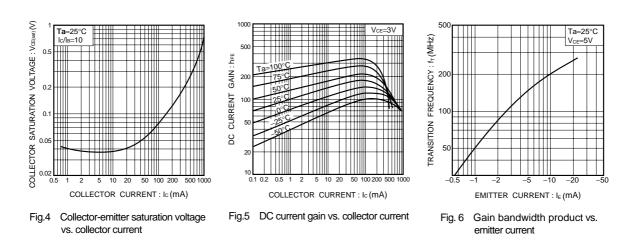
Item	Q	R	
hfe	120 to 270	180 to 390	

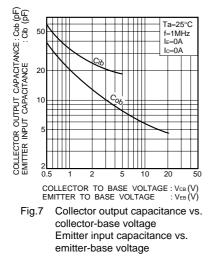


•Electrical characteristic curves

2SC1741S

Transistors





Notes

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