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Medium Power Transistor (32V, 0.5A) 2SC2411K

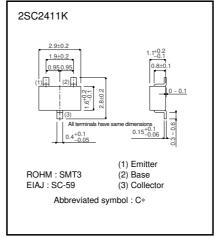
Features

- 1) High Icmax.
 - $I_{CMax.} = 0.5A$
- Low VcE(sat).
 Optimal for low voltage operation.
- 3) Complements the 2SA1036K.

Structure

Epitaxial planar type NPN silicon transistor

●External dimensions (Units : mm)



* Denotes her

● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol Limits		Unit	
Collector-base voltage	Vсво	40	V	
Collector-emitter voltage	VCEO	32	V	
Emitter-base voltage	VEBO	5	V	
Collector current	Ic	0.5	A *	
Collector power dissipation	Pc	0.2	W	
Junction temperature	Tj 150		°C	
Storage temperature	Tstg	-55 to +150	°C	

^{*} Pc must not be exceeded.



●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	40	_	-	٧	Ic=100μA
Collector-emitter breakdown voltage	BVceo	32	_	-	٧	Ic=1mA
Emitter-base breakdown voltage	ВVево	5	_	-	V	Iε = 100μA
Collector cutoff current	Ісво	-	_	1	μΑ	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	٧	Ic/I _B = 500mA/50mA
Transition frequency	f⊤	_	250	_	MHz	VcE = 5V, IE = -20mA, f = 100MHz
Output capacitance	Cob	_	6.5	_	pF	VcB = 10V, IE = 0A, f = 1MHz

● Packaging Specifications and hFE

		Package	Taping
		Code	T146
Туре	h _{FE}	Basic ordering unit (pieces)	3000
2SC2411K	QR		0

hre values are classified as follows:

Item	Q	R
hfe	120 to 270	180 to 390

•Electrical characteristic curves

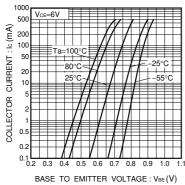


Fig.1 Grounded emitter propagation characteristics

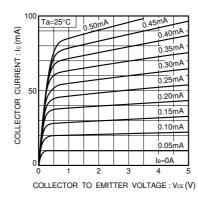


Fig.2 Grounded emitter output characteristics (I)

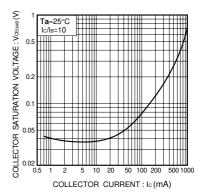


Fig.4 Collector-emitter saturation voltage vs. collector current

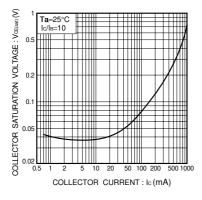


Fig.4 Collector-emitter saturation voltage vs. collector current

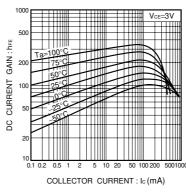


Fig.5 DC current gain vs. collector current

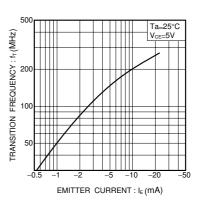


Fig. 6 Gain bandwidth product vs. emitter current

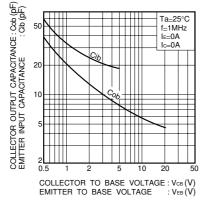


Fig.7 Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

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