

**SOT-23 Plastic-Encapsulate Transistors****2SC2714** TRANSISTOR (NPN)**FEATURES**

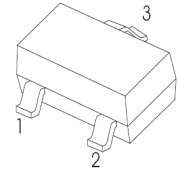
- Small reverse Transfer Capacitance: $C_{re}=0.7\text{pF}(\text{typ.})$
- Low Noise Figure: $NF=2.5\text{dB}(\text{typ.})$ ($f=100\text{MHz}$)

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	30	V
V_{EBO}	Emitter-Base Voltage	4	V
I_C	Collector Current -Continuous	20	mA
P_C	Collector Power Dissipation	100	mW
T_j	Junction Temperature	125	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55-+125	$^\circ\text{C}$

SOT-23

1. BASE
2. EMITTER
3. COLLECTOR

**ELECTRICAL CHARACTERISTICS** ($T_a=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10\mu\text{A}, I_E=0$	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu\text{A}, I_C=0$	4			V
Collector cut-off current	I_{CBO}	$V_{CB}=18\text{V}, I_E=0$			0.5	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			0.5	μA
DC current gain	h_{FE}	$V_{CE}=6\text{V}, I_C=1\text{mA}$	40		200	
Transition frequency	f_T	$V_{CE}=6\text{V}, I_C=1\text{mA}$		550		MHz
Reverse Transfer capacitance	C_{re}	$V_{CB}=6\text{V}, I_E=0, f=1\text{MHz}$		0.7		pF
Noise figure	NF	$V_{CE}=6\text{V}, I_C=1\text{mA}, f=100\text{MHz}$		2.5	5	dB

CLASSIFICATION OF h_{FE}

Rank	R	O	Y
Range	40-80	70-140	100-200
Marking	QR	QO	QY

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