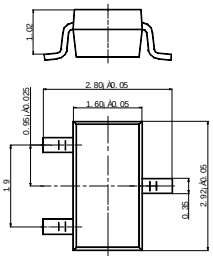
2SC2735 TRANSISTOR (NPN)

SOT-23-3L

1. BASE
2. EMITTER
3. COLLECTOR



FEATURES

Power dissipation

P_{CM}: 0.15 W (Tamb=25℃)

Collector current

I_{CM}: 0.05 A

Collector-base voltage

$V_{(BR)CBO}$: 30 V

Operating and storage junction temperature range

T_J, T_{stg}: -55℃ to +150℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	Ic=10μA, I_E=0	30		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	Ic= 1mA, I_B=0	20		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E= 10μA, I_C=0	3		V
Collector cut-off current	I_{CBO}	V_{CB}= 10V , I_E=0		0.5	μA
DC current gain	h_{FE}	V_{CE}= 10V, I_C= 10mA	40		
Collector-emitter saturation voltage	V_{CE}(sat)	I_C=20mA, I_B= 4mA		1	V
Transition frequency	f_T	V_{CE}=10V, I_C= 10mA	600		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V,I_E=0, f=1MHz		1.5	pF
Noise figure	NF	V_{CC}=12V,I_c=2mA, f=200MHZ, f_{osc}= 230MHz		8	dB

Marking	**JC**