



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-323 Plastic-Encapsulate Transistors

DTC114TUA TRANSISTOR (NPN)

FEATURES

Power dissipation

P_{CM} : 0.2 W (Tamb=25°C)

Collector current

I_{CM} : 0.1 A

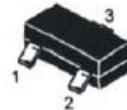
Collector-base voltage

$V_{(BR)CBO}$: 50 V

Operating and storage junction temperature range

T_J, T_{stg} : -55°C to +150°C

SOT-323



1. BASE
2. Emitter
3. COLLECTOR

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=50\mu A, I_E=0$	50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=50\mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=50V, I_E=0$			0.5	uA
Emitter cut-off current	I_{EBO}	$V_{EB}=4V, I_C=0$			0.5	uA
DC current gain	h_{FE}	$V_{CE}=5V, I_C=1mA$	100	250	600	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$			0.3	V
Transition frequency	f_T	$V_{CE}=10V, I_C=5mA, f=100MHz$		250		MHz
Input resistor	R1		7	10	13	$k\Omega$