

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

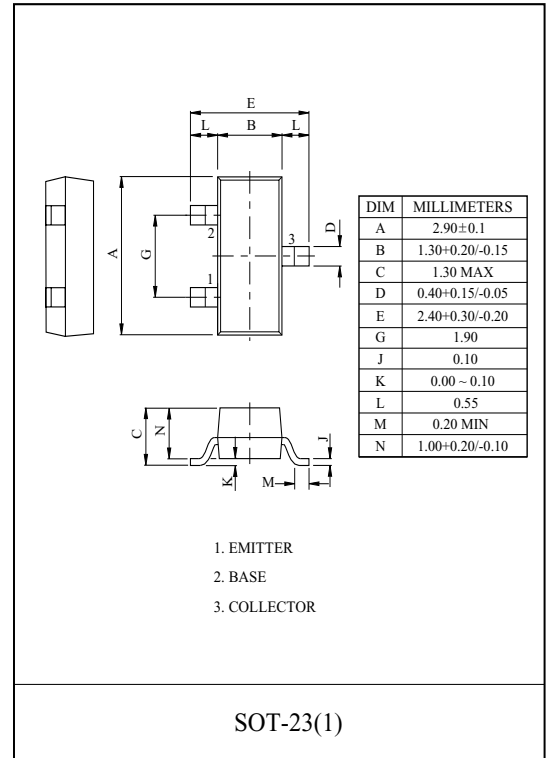
FEATURES

- Complementary to the 2N4403SC

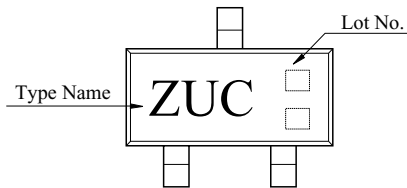
MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	75	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	600	mA
Collector Power Dissipation	P_C^*	350	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Note : * Package Mounted On 99.5% Alumina 10 × 8 × 0.6mm)



Marking



2N4401SC

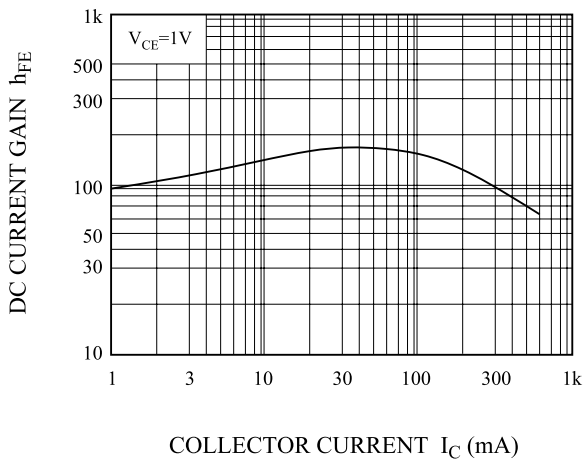
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CEX}	$V_{CE}=60V, V_{EB}=-3V$	-	-	10	nA
Collector Cut-off Current	I_{CBO}	$V_{CB}=60V, I_E=0$	-	-	10	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=3V, I_C=0$	-	-	10	nA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	75	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	40	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	6.0	-	-	V
DC Current Gain *	h_{FE}	$V_{CE}=10V, I_C=150mA$	150	-	250	
Collector-Emitter Saturation Voltage *	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$	-	-	1.0	V
Base-Emitter Saturation Voltage *	$V_{BE(sat)}$	$I_C=500mA, I_B=50mA$	-	-	2.0	V
Transition Frequency	f_T	$V_{CE}=20V, I_C=20mA, f=100MHz$	250	-	-	MHz

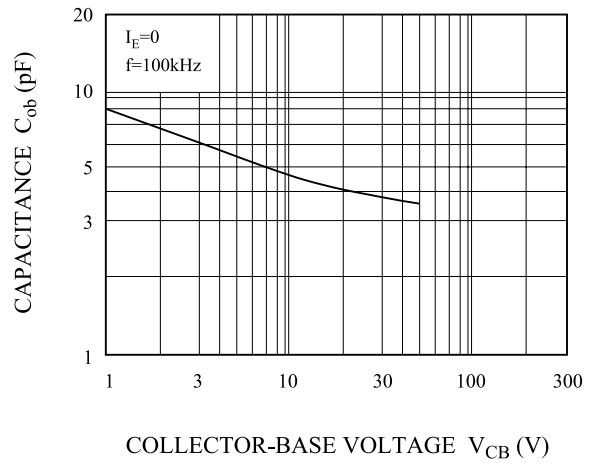
* Pulse Test : Pulse Width 300 μs , Duty Cycle 2%.

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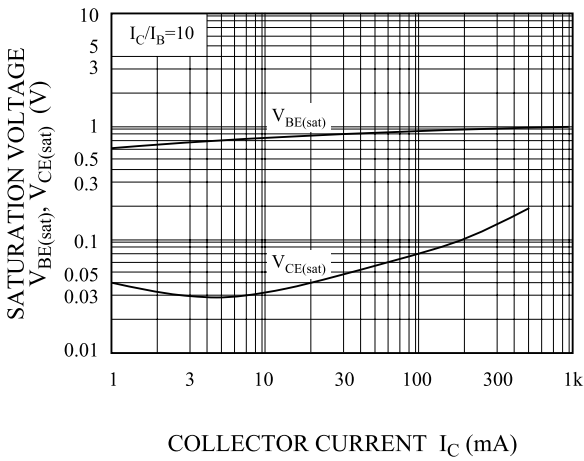
$h_{FE} - I_C$



$C_{ob} - V_{CB}$



$V_{BE(sat)}, V_{CE(sat)} - I_C$



SAFE OPERATING AREA

