



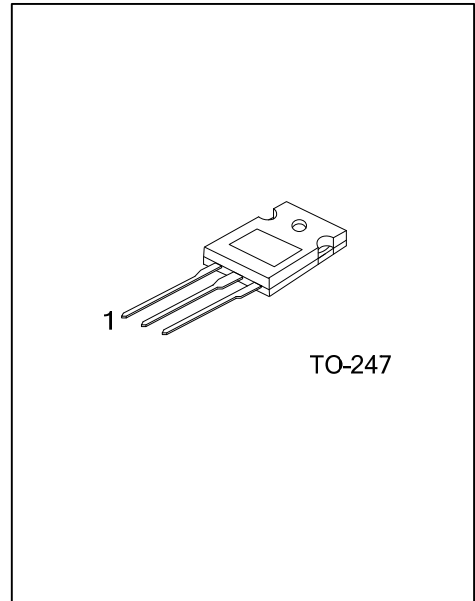
2N2955

PNP SILICON TRANSISTOR

SILICON PNP TRANSISTORS

DESCRIPTION

The UTC **2N2955** is a silicon PNP transistor in TO-247 metal case. It is intended for power switching circuits, series and shunt regulators, output stages and high fidelity amplifiers.



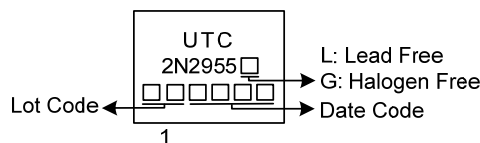
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2N2955L-T47-T	2N2955G-T47-T	TO-247	B	C	E	Tube

Note: Pin Assignment: E: Emitter B: Base C: Case

<p>2N2955G-T47-T</p> <p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Green Package</p>	<p>(1) T: Tube</p> <p>(2) T47: TO-247</p> <p>(3) G: Halogen Free and Lead Free, L: Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$,unless otherwise specified)

PARAMETERS	SYMBOL	RATINGS	UNITS
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector-Emitter Voltage	V_{CEV}	70	V
Collector Current	I_C	15	A
Collector Peak Current (Note)	I_{CM}	15	A
Base Current	I_B	7	A
Base Peak Current (Note)	I_{BM}	15	A
Total Dissipation at $T_A=25^\circ\text{C}$	P_D	90	W
Max. Operating Junction Temperature	T_J	+200	$^\circ\text{C}$
Storage Temperature	T_{STG}	-65 ~ 200	$^\circ\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
OFF CHARACTERISTICS						
Collector-Emitter Sustaining Voltage	$V_{CEO(SUS)}$	$I_C=200\text{mA}, I_B=0\text{V}$	60			V
Collector-Emitter Sustaining Voltage	$V_{CER(SUS)}$	$I_C=0.2\text{A}, R_{BE}=100\Omega$	70			V
Collector Cut-off Current	I_{CEO}	$V_{CE}=30\text{V}, I_B=0$			0.7	mA
Collector Cut-off Current	I_{CEX}	$V_{CE}=100\text{V}, V_{BE(OFF)}=1.5\text{V}$ $V_{CE}=100\text{V}, V_{BE(OFF)}=1.5\text{V},$ $T_a=150^\circ\text{C}$			1.0 5.0	mA
Emitter Cut-off Current	I_{EBO}	$V_{BE}=7\text{V}, I_C=0$			5.0	mA
ON CHARACTERISTICS						
DC Current Gain (Note)	h_{FE}	$I_C=4\text{A}, V_{CE}=4\text{V},$ $I_C=10\text{A}, V_{CE}=4\text{V}$	20 5		70	
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=4\text{A}, I_B=400\text{mA}$ $I_C=10\text{A}, I_B=3.3\text{A}$			1.1 3.0	V
Base-Emitter On Voltage	$V_{BE(ON)}$	$I_C=4\text{A}, V_{CE}=4\text{V}$			1.5	V
SECOND BREAKDOWN						
Second Breakdown Collector with Base Forward Biased	Is/b	$V_{CE}=60\text{V}, T=1.0\text{s}, \text{Non-repetitive}$	2.87			A
DYNAMIC CHARACTERISTICS						
Current Gain-Bandwidth Product	f_T	$I_C=0.5\text{A}, V_{CE}=10\text{V}, f=1\text{MHz}$	2.5			MHz
Small-Signal Current Gain	h_{FE}	$I_C=1\text{A}, V_{CE}=4\text{V}, f=1\text{kHz}$	15		120	
Small-Signal Current Gain Cut-off Frequency	f_{hFE}	$I_C=1\text{A}, V_{CE}=4\text{V}, f=1\text{kHz}$	10			kHz

Note: Pulse Test: $PW \leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$.

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