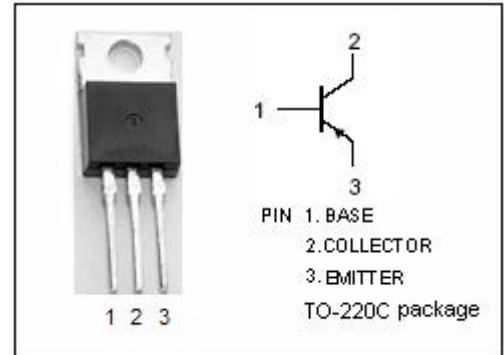


**isc Silicon PNP Power Transistor**
**TIP2955T**
**DESCRIPTION**

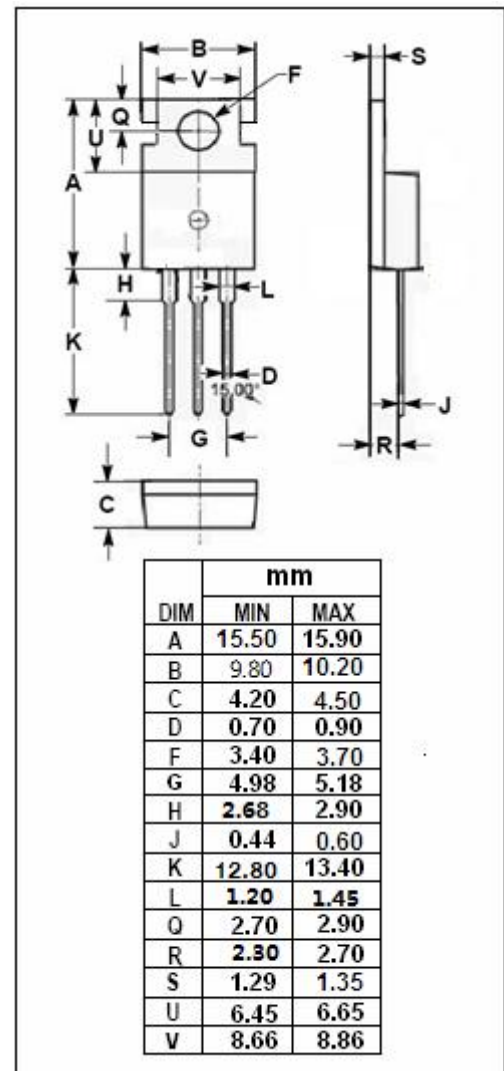
- Excellent Safe Operating Area
- DC Current Gain-  
:  $h_{FE}=20-70@I_C = 4A$
- Collector-Emitter Saturation Voltage-  
:  $V_{CE(sat)}= 0.8V(Max)@ I_C = 4A$
- Complement to Type TIP2955T
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


**APPLICATIONS**

- Designed for general-purpose switching and amplifier applications.

**ABSOLUTE MAXIMUM RATINGS( $T_a=25^{\circ}C$ )**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-70	V
$V_{CEO}$	Collector-Emitter Voltage	-60	V
$V_{EBO}$	Emitter-base Voltage	-5	V
$I_C$	Collector Current-Continuous	-10	A
$I_C$	Collector Current-Peak	-12	A
$I_B$	Base Current	-4	A
$P_C$	Collector Power Dissipation@ $T_c=25^{\circ}C$	75	W
$T_j$	Junction Temperature	150	$^{\circ}C$
$T_{stg}$	Storage Temperature Range	-65~175	$^{\circ}C$


**THERMAL CHARACTERISTICS**


SYMBOL	PARAMETER	VALUE	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.67	$^{\circ}C/W$
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient	70	$^{\circ}C/W$

## isc Silicon PNP Power Transistors

## TIP2955T

## ELECTRICAL CHARACTERISTICS

 $T_C=25^\circ\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C = -30\text{mA}$ ; $I_B = 0$	-60		V
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	$I_C = -4\text{A}$ ; $I_B = -0.4\text{A}$		-0.8	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	$I_C = -10\text{A}$ ; $I_B = -3.3\text{A}$		-4.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage 	$I_C = -4\text{A}$ ; $I_B = -0.4\text{A}$		-1.8	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -4\text{A}$ ; $V_{CE} = -4\text{V}$		-1.8	V
$I_{CEO}$	Collector Cutoff Current	$V_{CE} = -30\text{V}$ ; $I_B = 0$		-0.2	mA
$I_{CBO}$	Collector Cutoff Current	$V_{CB} = -70\text{V}$ ; $I_E = 0$ ; $V_{CB} = -70\text{V}$ ; $I_E = 0$ ; $T_J = 150^\circ\text{C}$		-0.1 -1.0	mA
$I_{EBO}$	Emitter Cutoff Current	$V_{EB} = -5\text{V}$ ; $I_C = 0$		-0.5	mA
$h_{FE-1}$	DC Current Gain	$I_C = -4\text{A}$ ; $V_{CE} = -4\text{V}$	20	70	
$h_{FE-2}$	DC Current Gain	$I_C = -10\text{A}$ ; $V_{CE} = -4\text{V}$	5		
$f_T$	Current-Gain—Bandwidth Product	$I_C = -0.5\text{A}$ ; $V_{CE} = -10\text{V}$	2		MHz

## Switching Times

$t_{on}$	Turn-On Time	$I_C = 2\text{A}$ ; $I_{B1} = -I_{B2} = 0.2\text{A}$		1.0	$\mu\text{s}$
$t_f$	Turn-Off Time			4.0	$\mu\text{s}$

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**isc Silicon PNP Power Transistors****TIP2955T**

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