

■ PRODUCT CHARACTERISTICS

BVCEO	250V
BVCBO	250V
HFE	75-150
IC	15A

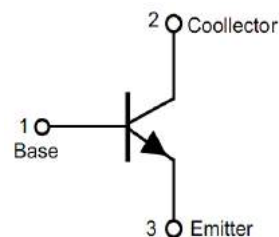
■ DESCRIPTION

- High Collector-Emitter Breakdown Voltage-
 $V_{(BR)CEO}=250V(\text{Min})$
- Good Linearity of h_{FE}
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

■ APPLICATIONS

- Designed for high fidelity audio amplifier and other linear applications

Symbol



■ ORDER INFORMATION

Order codes		Package	Packing
Halogen-Free	Halogen		
N/A	RST0281Q	TO-3PB	30 pieces/Tube

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

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	250	V
V_{CEO}	Collector-Emitter Voltage	250	V
V_{CEX}	Collector-Emitter Voltage $V_{EB}=5V$	250	V
V_{EBO}	Emitter-Base Voltage	5	A
I_C	Collector Current-Continuous	15	A
I_{CM}	Collector Current-Peak	30	A
I_B	Base Current-Continuous	1.5	A
P_T	Total Power Dissipation @ $T_C=25^{\circ}\text{C}$	150	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^{\circ}\text{C}$

■ THERMAL DATA

Symbol	Parameter	Max	Unit
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.63	$^{\circ}\text{C}/\text{W}$

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=30\text{mA}$; $I_B=0$	250			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=5.0\text{A}$; $I_B=0.5\text{A}$			1.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C=5.0\text{A}$, $V_{CE}=5.0\text{V}$			1.2	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=250\text{V}$; $I_E=0$			10	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=5\text{V}$; $I_C=0$			5	μA
h_{FE}	DC Current Gain	$I_C=0.5\text{A}$; $V_{CE}=5\text{V}$	75		150	
h_{FE1}	DC Current Gain	$I_C=1\text{A}$; $V_{CE}=5\text{V}$	75		150	
h_{FE2}	DC Current Gain	$I_C=3\text{A}$; $V_{CE}=5\text{V}$	75		150	
C_{OB}	Output Capacitance	$I_E=0$; $V_{CB}=10\text{V}$; $f_{test}=1.0\text{MHz}$		700		pF
f_T	Current-Gain—Bandwidth Product	$I_C=1\text{A}$; $V_{CE}=5\text{V}$; $f_{test}=1.0\text{MHz}$	20			MHz

■ TO-3PB PACKAGE OUTLINE DIMENSIONS

