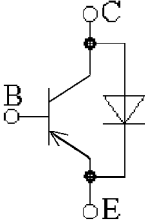


TRANSISTOR SILICON PNP EPITAXIAL TYPE

VL035DP

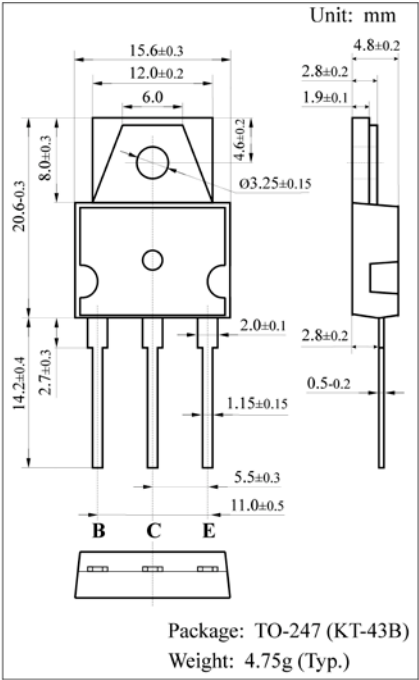
POWER AMPLIFIER APPLICATIONS

- High Transition Frequency: $f_T=100\text{MHz}$ (Min.)
- Complementary to VL035DN
- Recommended for 100W High Fidelity Audio Frequency Amplifier Output Stage



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

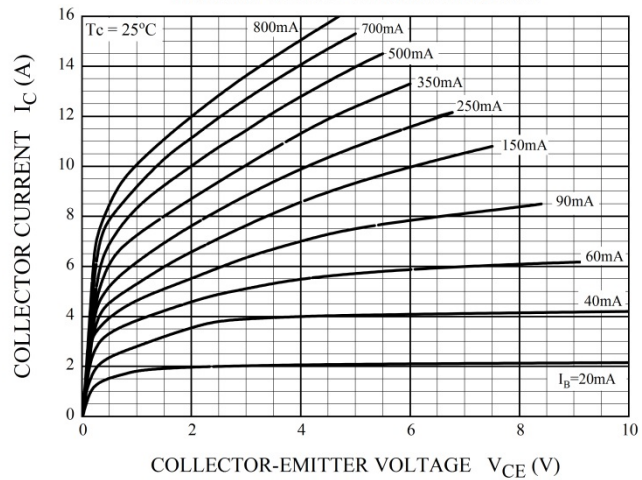
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	-230	V
Collector-Emitter Voltage	V_{CE0}	-200	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-15	A
Base Current	I_B	-3	A
Diode Forward Voltage	I_F	-15	A
Collector Power Dissipation ($T_C=25^\circ\text{C}$)	P_C	150	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-60 to +150	$^\circ\text{C}$



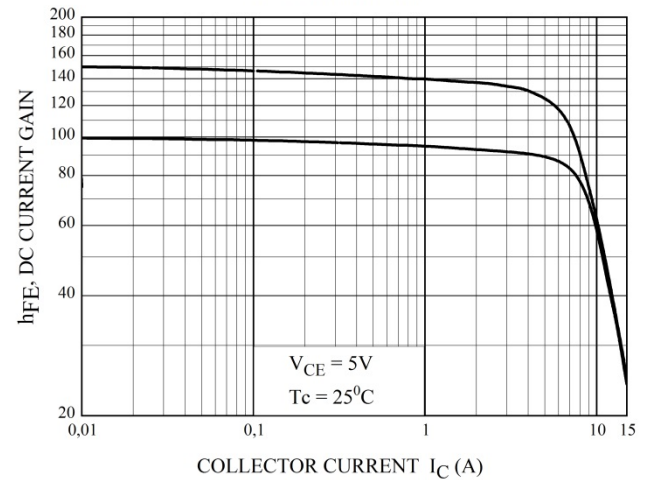
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=-200\text{V}, I_E=0$	—	—	-50.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5\text{V}, I_C=0$	—	—	-50.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=-50\text{mA}, I_B=0$	-200	—	—	V
DC Current Gain	H_{21E}	$V_{CE}=-5\text{V}, I_C=-1\text{A}$	60	—	150	
		$V_{CE}=-5\text{V}, I_C=-7\text{A}$	—	70	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-7\text{A}, I_B=-0.7\text{A}$	—	-0.30	-1.0	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-7\text{A}, I_B=-0.7\text{A}$	—	-1.0	-1.5	V
Diode Forward Voltage	V_F	$I_F=-10\text{A}$	—	-1.5	-2.0	V
Transition Frequency	f_T	$V_{CE}=-10\text{V}, I_C=-1\text{A}$	100	—	—	MHz
Collector Output Capacitance	C_{OB}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	—	370	400	pF

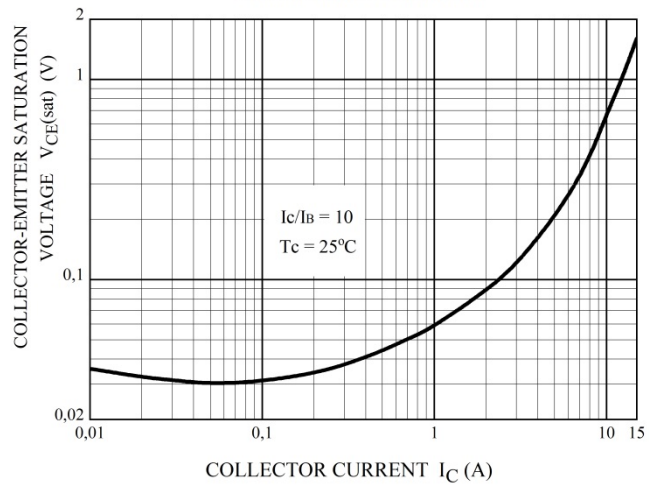
TYPICAL OUTPUT CHARACTERISTICS



DC CURRENT GAIN



SATURATION VOLTAGES



SATURATION VOLTAGES

