

■ PRODUCT CHARACTERISTICS

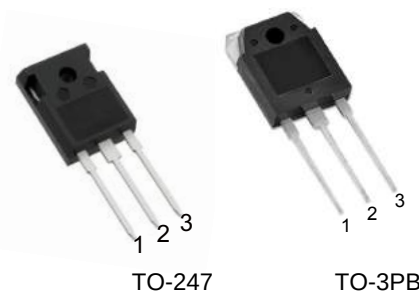
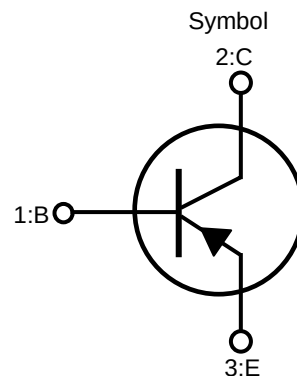
V_{CBO}	-120V
V_{CEO}	-120V
I_C	-10A

■ APPLICATIONS

Power amplifier applications

■ FEATURES

High breakdown voltage
Complement to type 2SD718



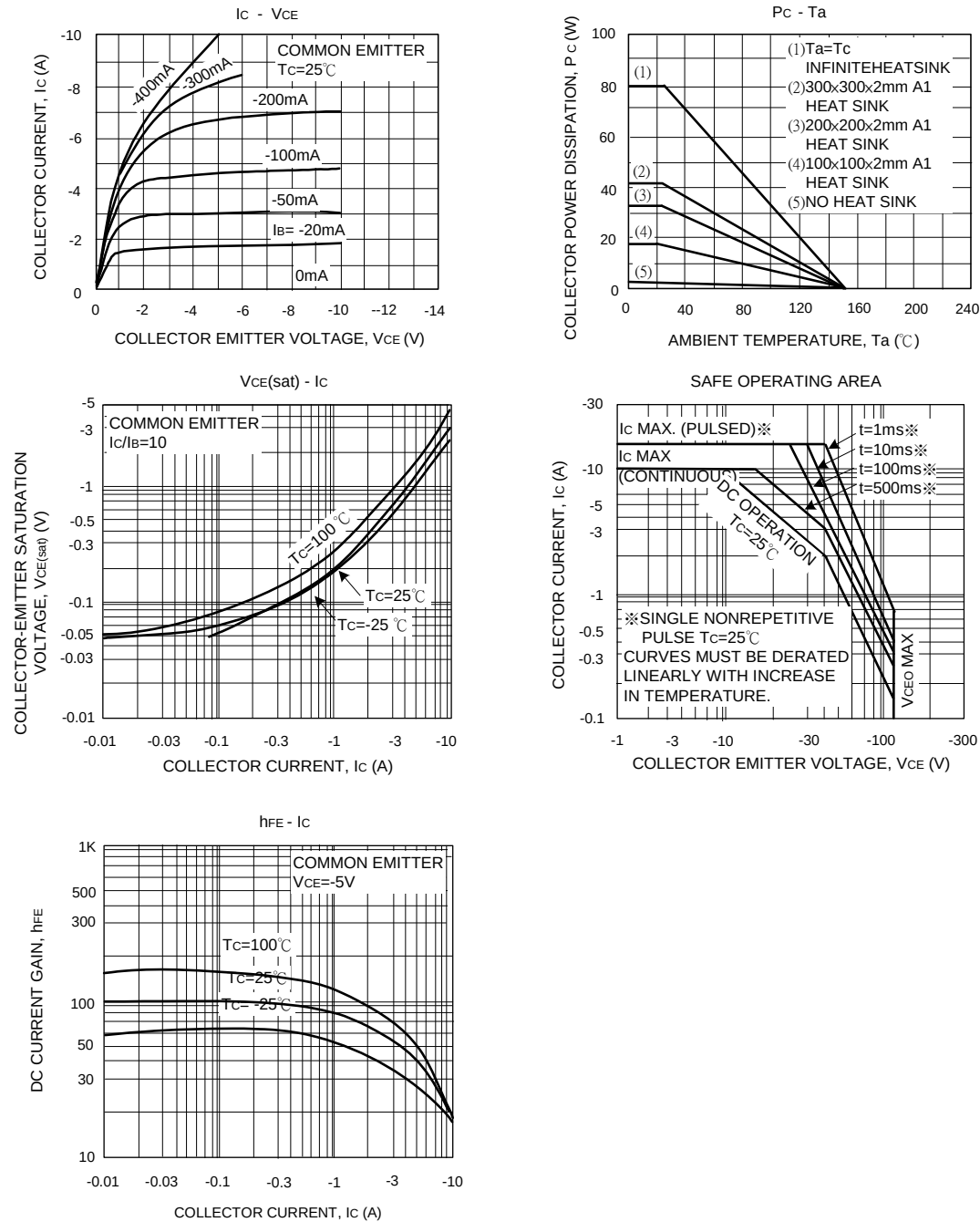
■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETERS	SYMBOL	RATINGS	UNITS
Collector-Base Voltage	V_{CBO}	-120	V
Collector-Emitter Voltage	V_{CEO}	-120	V
Emitter Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-10	A
Base Current	I_B	-1	A
Collector Power Dissipation ($T_C=25^{\circ}\text{C}$)	P_C	80	W
Max. Operating Junction Temperature	T_J	+150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

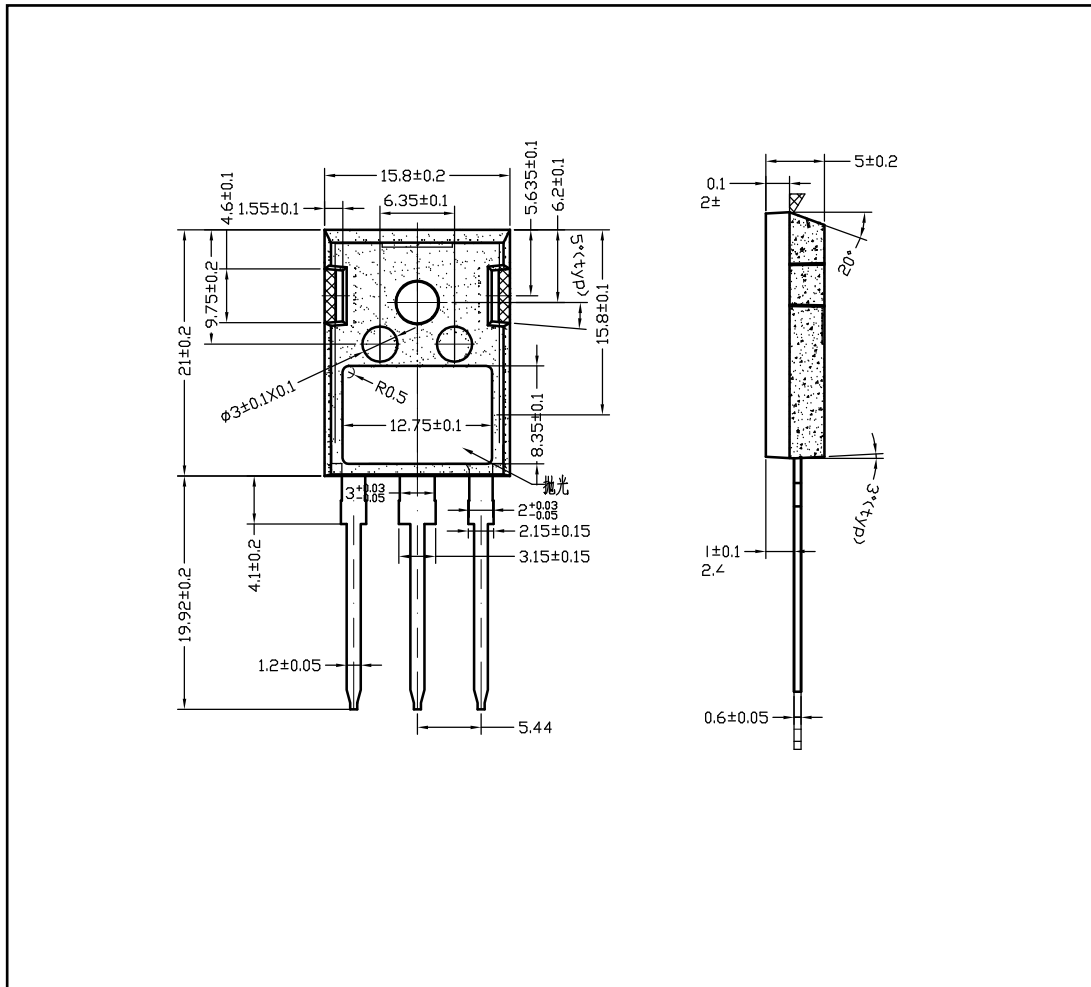
■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -120\text{V}, I_E = 0$			-10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$			-10	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50\text{mA}, I_B = 0$	-120			V
DC Current Gain	h_{FE}	$V_{CE} = -5\text{V}, I_C = -1\text{A}$	55		160	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -5\text{A}, I_B = -0.5\text{A}$			-2.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5\text{A}, I_C = -5\text{A}$			-1.5	V
Transition Frequency	f_T	$V_{CE} = -5\text{A}, I_C = -1\text{A}$		10		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0, f=1\text{MHz}$		280		pF

■ TYPICAL CHARACTERISTICS



■ TO-247-3L PACKAGE OUTLINE DIMENSIONS



■ TO-3PB PACKAGE OUTLINE DIMENSIONS

