

**SPTECH Silicon NPN Power Transistor**

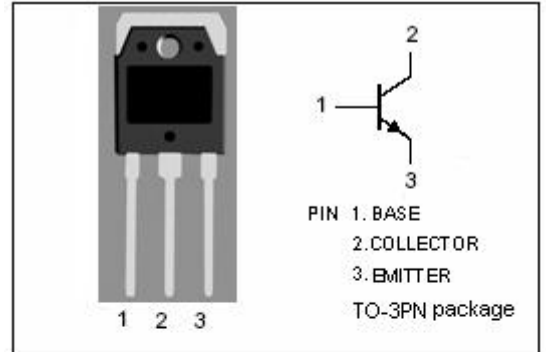
**2SC2625**

**DESCRIPTION**

- High Collector-Emitter Breakdown Voltage-  
:  $V_{(BR)CEO} = 400V(\text{Min})$
- High Switching Speed
- High Reliability

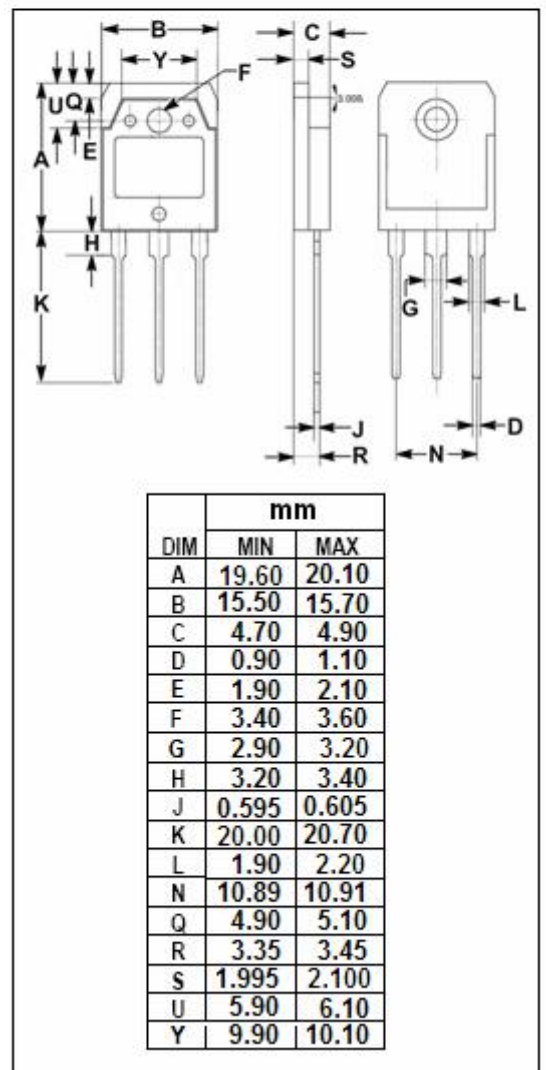
**APPLICATIONS**

- Switching regulators
- Ultrasonic generators
- High frequency inverters
- General purpose power amplifiers



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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	450	V
$V_{CEO}$	Collector-Emitter Voltage	400	V
$V_{CEO(SUS)}$	Collector-Emitter Voltage	400	V
$V_{EBO}$	Emitter-Base voltage	7	V
$I_C$	Collector Current-Continuous	10	A
$I_B$	Base Current-Continuous	3	A
$P_C$	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	80	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.17	$^\circ\text{C}/\text{W}$

**ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C= 10\text{mA}$ ; $I_B= 0$	400			V
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C= 30\text{mA}$ ; $I_B= 0$	400			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C= 1\text{mA}$ ; $I_E= 0$	450			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E= 0.1\text{mA}$ ; $I_C= 0$	7			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C= 4\text{A}$ ; $I_B= 0.8\text{A}$			1.2	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C= 4\text{A}$ ; $I_B= 0.8\text{A}$			1.5	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB}= 450\text{V}$ ; $I_E=0$			1.0	mA
$I_{EBO}$	Emitter Cutoff Current	$V_{EB}= 7\text{V}$ ; $I_C=0$			0.1	mA
$h_{FE}$	DC Current Gain	$I_C= 4\text{A}$ ; $V_{CE}= 5\text{V}$	10			

Switching times

$t_{on}$	Turn-on Time	$I_C= 7.5\text{A}$ , $I_{B1}= -I_{B2}= 1.5\text{A}$ $R_L= 20\ \Omega$ ; $P_W=20\ \mu\text{s}$ Duty Cycle $\leq 2\%$			1.0	$\mu\text{s}$
$t_{stg}$	Storage Time				2.0	$\mu\text{s}$
$t_f$	Fall Time				1.0	$\mu\text{s}$

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