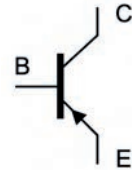


Features

- Collector-emitter breakdown voltage
 $-V_{(BR)CEO} = -80V$ (Min)
- Collector-emitter saturation voltage
 $-V_{CE(sat)} = -1V$ (Max) @ $I_C = -25A$



TO-3



Schematic Diagram

Applications

Designed for use in horizontal deflection circuits of color TV receivers

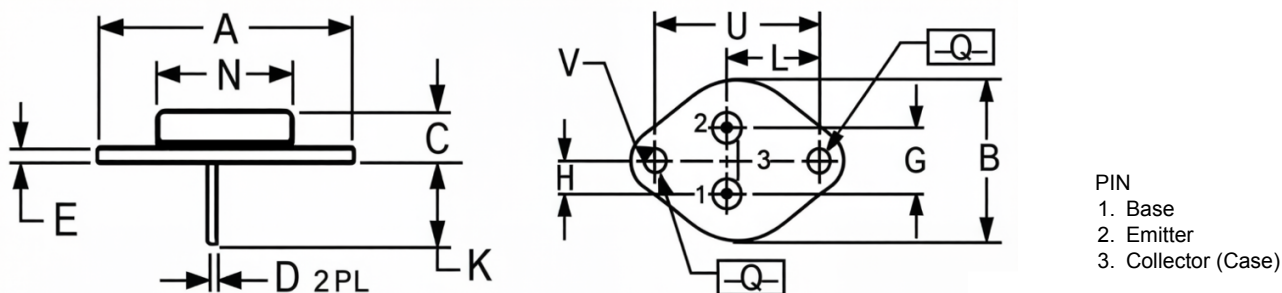
Absolute Maximum Ratings ($T_A = 25^\circ C$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current-Continuous	I_C	-50	A
Base Current-Continuous	I_B	-15	A
Collector Power Dissipation @ $T_C = 25^\circ C$	P_C	300	W
Max. Thermal Resistance from Junction to Case	$R_{\theta JC}$	0.584	$^\circ C/W$
Junction Temperature	T_J	200	$^\circ C$
Storage Temperature Range	T_{STG}	-65 to +200	$^\circ C$

Electrical Characteristics ($T_C = 25^\circ C$ unless otherwise noted)

Parameter	Symbol	Condition	Min	Max	Unit
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -30mA, I_B = 0$	-80	-	V
Collector-Base Cutoff Current	I_{CBO}	$V_{CB} = -80V, I_E = 0$	-	-2	mA
Collector-Emitter Cutoff Current	I_{CEO}	$V_{CE} = -40V, I_B = 0$	-	-1	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$	-	-5	mA
DC Current Gain	h_{FE1}	$I_C = -25A, V_{CE} = -2V$	15	60	-
	h_{FE2}	$I_C = -50A, V_{CE} = -5V$	5	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -25A, I_B = -2.5A$	-	-1	V
		$I_C = -50A, I_B = -10A$	-	-5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -25A, I_B = -2.5A$	-	-2	V
Base-Emitter On Voltage	$V_{BE(on)}$	$I_C = -25A, V_{CE} = -2V$	-	-2	V

Package Outline Dimensions (TO-3)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	38.70	39.10	1.524	1.539
B	25.20	25.60	0.992	1.008
C	8.30	8.90	0.327	0.350
D	1.45	1.60	0.057	0.063
E	1.50	1.70	0.059	0.067
G	11.00 TYP		0.433 TYP	
H	5.50 TYP		0.217 TYP	
K	10.50	13.50	0.413	0.531
L	16.75	17.05	0.659	0.671
N	19.40	19.70	0.764	0.776
Q	4.00	4.20	0.157	0.165
U	29.00	31.00	1.142	1.220
V	4.00	4.20	0.157	0.165

Order Information

Device	Package	Marking	Packaging	SPQ
GS2N5684	TO-3	2N5684	Box	50 Pcs / Box