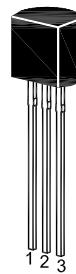


2SC2240

NPN Silicon Epitaxial Planar Transistor

for low noise audio amplifier applications.



The transistor is subdivided into two groups, G and L according to its DC current gain

On special request, these transistors can be manufactured in different pin configurations.

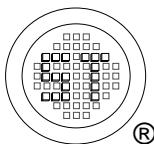
1. Emitter 2. Collector 3. Base
TO-92 Plastic Package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
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	100	mA
Base Current	I_B	20	mA
Power Dissipation	P_{tot}	625	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE} = 6 \text{ V}$, $I_C = 2 \text{ mA}$	h_{FE} h_{FE}	200	-	400	-
Current Gain Group G L		350	-	700	-
Collector Base Cutoff Current at $V_{CB} = 120 \text{ V}$	I_{CBO}	-	-	100	nA
Emitter Base Cutoff Current at $V_{EB} = 5 \text{ V}$	I_{EBO}	-	-	100	nA
Collector Emitter Breakdown Voltage at $I_C = 1 \text{ mA}$	$V_{(BR)CEO}$	120	-	-	V
Collector Emitter Saturation Voltage at $I_C = 10 \text{ mA}$, $I_B = 1 \text{ mA}$	$V_{CE(sat)}$	-	-	0.3	V
Transition Frequency at $V_{CE} = 6 \text{ V}$, $I_C = 1 \text{ mA}$	f_T	-	100	-	MHz
Output Capacitance at $V_{CB} = 10 \text{ V}$, $f = 1 \text{ MHz}$	C_{ob}	-	-	6	pF

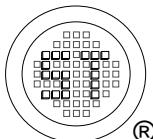
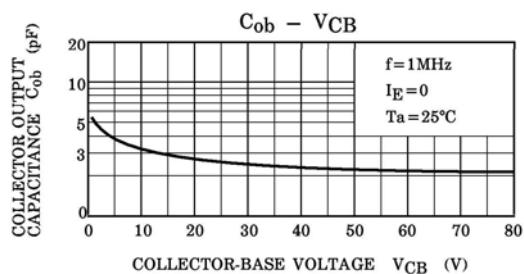
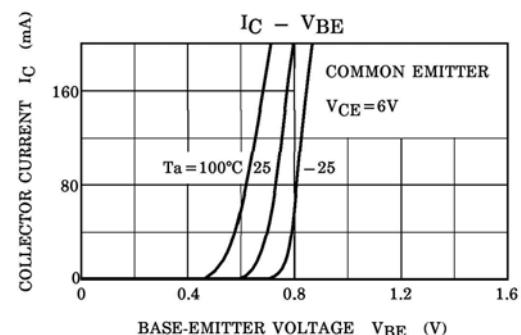
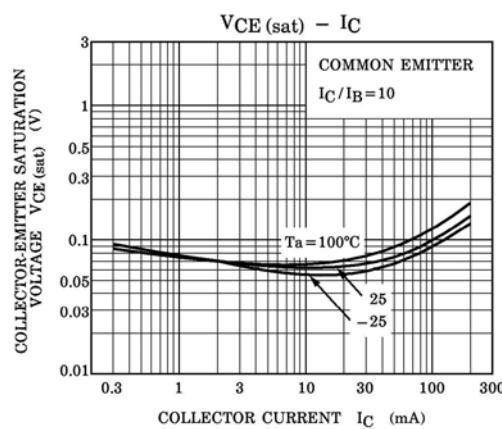
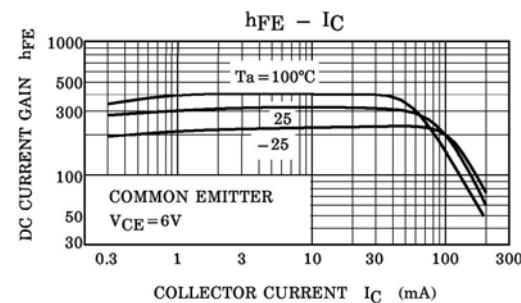
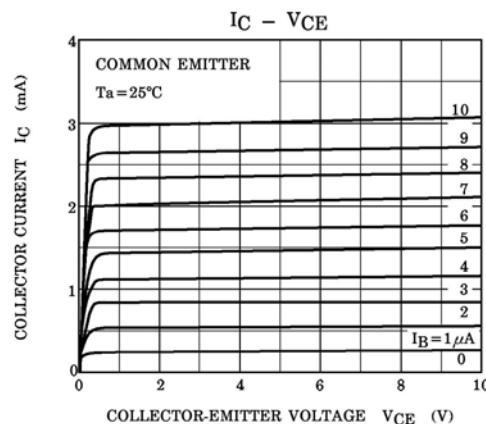
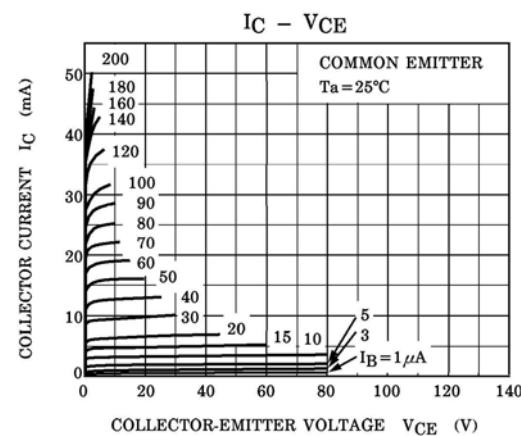


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ISO/TS 16949 : 2009 Certificate No. 160719000 ISO14001 : 2004 Certificate No. 7116 ISO 9001 : 2008 Certificate No. 60713410 BS-OHSAS 18001 : 2007 Certificate No. 7116 IECQ QC 080000 Certificate No. PRC-HSPM-14034

Dated: 08/01/2016 Rev: 02



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Intertek UKAS Intertek SGS

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