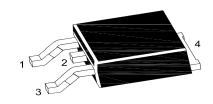
NPN Silicon Epitaxial Planar Transistor

Motor drivers, hammer drivers and relay drivers applications



1. Base 2. Collector 3. Emitter 4. Collector TO-252 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	80	V
Collector Emitter Voltage	V _{CEO}	60	V
Emitter Base Voltage	V _{EBO}	6	V
Collector Current	Ι _C	3	А
Collector Current (Pulse)	I _{CP}	6	А
Collector Dissipation Collector Dissipation @ $T_c = 25 \ ^{\circ}C$	Pc	1 15	W
Junction Temperature	TJ	150	°C
Storage Temperature Range	Ts	- 55 to + 150	°C

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

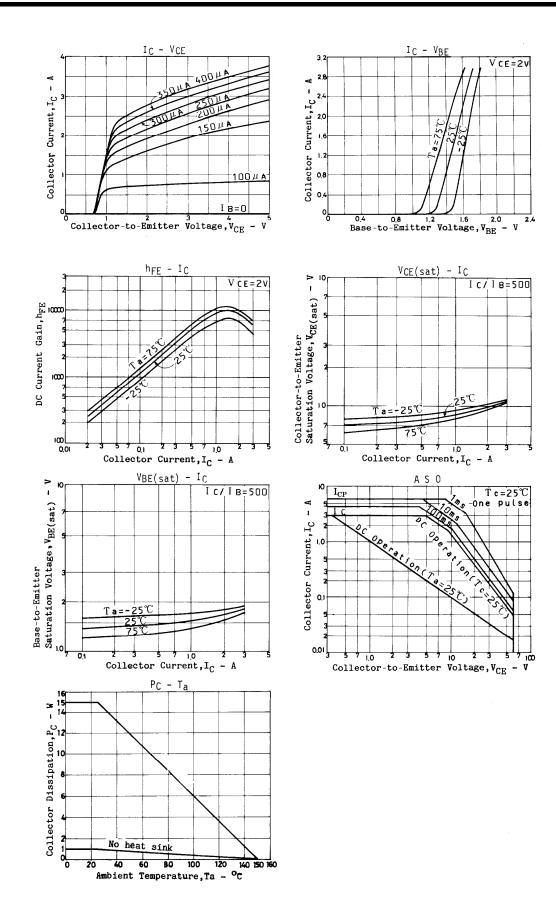
Parameter	Symbol	Min.	Max.	Unit
DC Current Gain				
at $V_{CE} = 2 V$, $I_C = 1 A$	h _{FE}	2000	-	-
at $V_{CE} = 2 V$, $I_C = 2 A$	h _{FE}	1000	-	-
Collector Base Breakdown Voltage at $I_c = 1 \text{ mA}$	V _{(BR)CBO}	80	-	V
Collector Emitter Breakdown Voltage at $I_c = 25 \text{ mA}$	V _{(BR)CEO}	60	-	V
Collector Cutoff Current at $V_{CB} = 60 \text{ V}$	I _{CBO}	-	10	μA
Emitter Cutoff Current at $V_{EB} = 5 V$	I _{EBO}	-	2.5	mA
Collector Emitter Saturation Voltage at $I_C = 2 A$, $I_B = 4 mA$	V _{CE(sat)}	-	1.5	V
Base Emitter Saturation Voltage at $I_C = 2 A$, $I_B = 4 mA$	$V_{BE(sat)}$	-	2	V



SEMTECH ELECTRONICS LTD. (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 10/08/2006



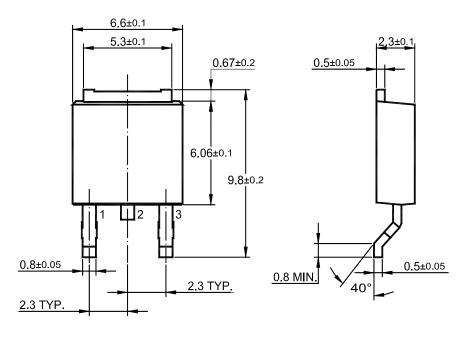


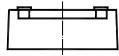
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TO-252 PACKAGE OUTLINE





Dimensions in mm







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