

Silicon NPN Power Transistor

DESCRIPTION

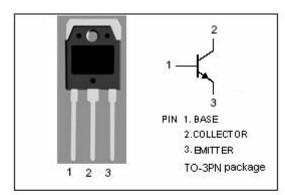
- Low Collector Saturation Voltage
- : V_{CE(sat)}= 0.5V(Max)@ I_C=3A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 120V (Min)
- · Good Linearity of hFE

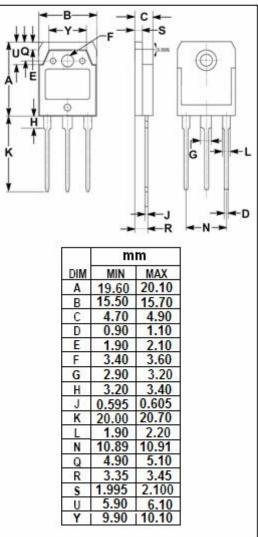


 Designed for use in humidifier, DC/DC converter and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	120	V
V _{EBO}	Emitter-Base Voltage	8	V
Ic	Collector Current-Continuous	7	Α
Ісм	Collector Current-Pulse	14	Α
I _B	Base Current-Continuous	3	Α
Pc	Pc Collector Power Dissipation @ Tc=25°C		W
TJ	T _J Junction Temperature		$^{\circ}$
T _{stg}	Storage Temperature Range		$^{\circ}$





Ordering Information

Product	Package	Packaging	
2SC3835T4TL	TO-3PN	Tube	

V01 1



ELECTRICAL CHARACTERISTICS

T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA ; I _B = 0	120			V
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.2	V
Ісво	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			100	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8V; I _C = 0			100	μ Α
h _{FE}	DC Current Gain	I _C = 3A ; V _{CE} = 4V	70		220	
fτ	Current-Gain—Bandwidth Product	I _E = 0.5A ; V _{CE} = 12V	20			MHz
Сов	Output Capacitance	I _E =0 ; V _{CB} =10V;f _{test} =1.0MHz		110		pF
Switching times						
t _{on}	Turn-on Time				0.5	μs
		1				

t _{on}	Turn-on Time			0.5	μs
t _{stg}	Storage Time	I _C = 3A ;I _{B1} =0.3A; I _{B2} = -0.6A R _L = 16.7 Ω ; V _{CC} = 50V		3.0	μs
t _f	Fall Time			0.5	μs

♦ h_{FE} Classifications

0	Y	G
70-120	100-200	160-220

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by SPS manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H MJ15024/WS MJ15025/WS BC546/116 BC556/FSC BC557/116 BSW67A HN7G01FU-A(T5L,F,T NJVMJD148T4G NSVMMBT6520LT1G NTE187A NTE195A NTE2302 NTE2302 NTE2330 NTE2353 NTE316 IMX9T110 NTE63 NTE65 C4460 SBC846BLT3G 2SA1419T-TD-H 2SA1721-O(TE85L,F) 2SA1727TLP 2SA2126-E 2SB1202T-TL-E 2SB1204S-TL-E 2SC5488A-TL-H 2SD2150T100R SP000011176 FMC5AT148 2N2369ADCSM 2SB1202S-TL-E 2SC2412KT146S 2SC4618TLN 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E MCH4021-TL-E BC557B TTC012(Q) BULD128DT4 JANTX2N3810 Jantx2N5416 US6T6TR KSF350 068071B