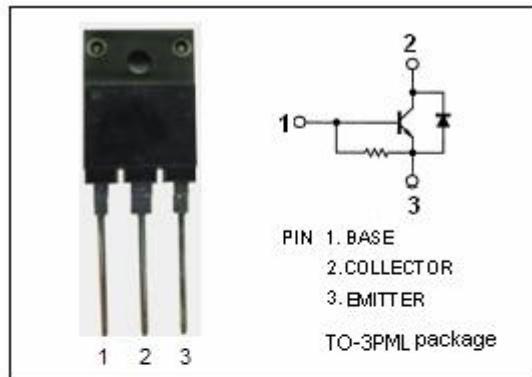


SPTECH Silicon NPN Power Transistor

2SC6104

DESCRIPTION

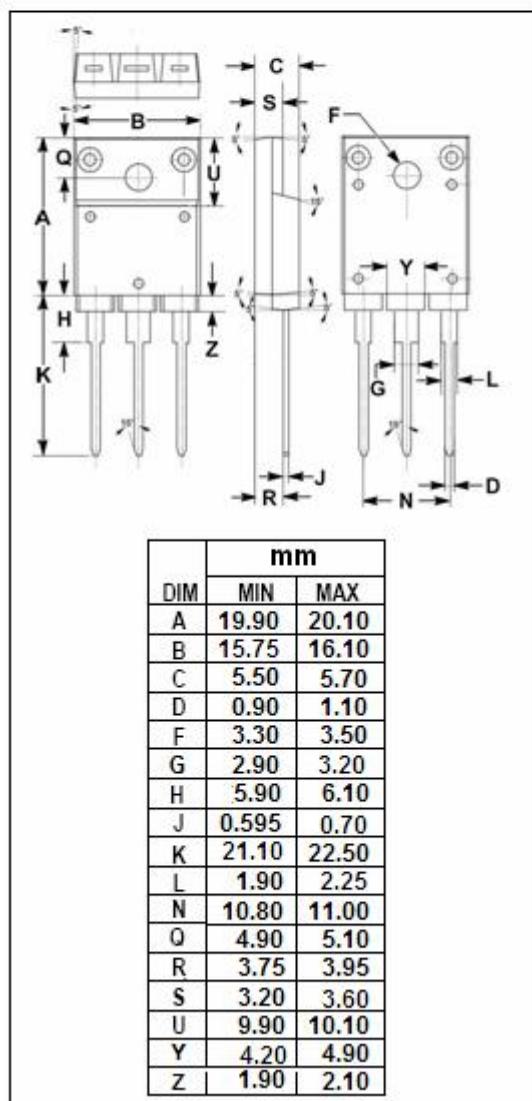
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 50V$ (Min)
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = 0.5V$ (Max)@ $I_C = 5A$

**APPLICATIONS**

- Designed for DC-DC converter, emergency lighting inverter and general purpose applications

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	100	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	15	V
I_C	Collector Current-Continuous	15	A
I_{CP}	Collector Current-Peak	25	A
I_B	Base Current-Continuous	4	A
P_c	Collector Power Dissipation @ $T_c=25^\circ C$	60	W
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-55~150	°C



SPTECH Silicon NPN Power Transistor**2SC6104****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 = 25mA; I _B = 0	50			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 80mA			0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 80mA			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V ; I _E = 0			10	µ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 15V ; I _C = 0			10	µ A
h _{FE}	DC current gain	I _C = 5A ; V _{CE} = 1V	60		360	
f _r	Current-Gain—Bandwidth Product	I _E = -1A ; V _{CE} = 12V		18		MHz
C _{OB}	Output Capacitance	I _E =0 ; V _{CB} = 10V; f _{test} = 1.0MHz		210		pF

Switching times

t _{on}	Turn-on Time	I _C = 5A , I _{B1} = 80mA; I _{B2} = 80mA R _L = 4 Ω ; V _{CC} = 20V	0.5		µ s
t _{stg}	Storage Time		2.0		µ s
t _f	Fall Time		0.4		µ s

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 SPTECH 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](#) [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](#)