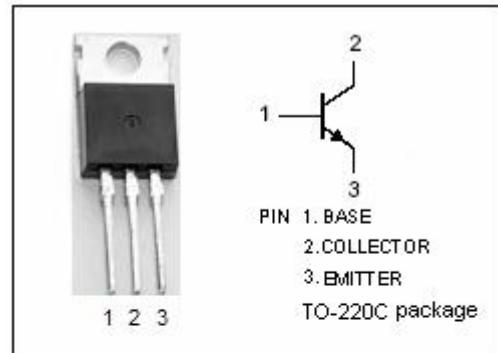


DESCRIPTION

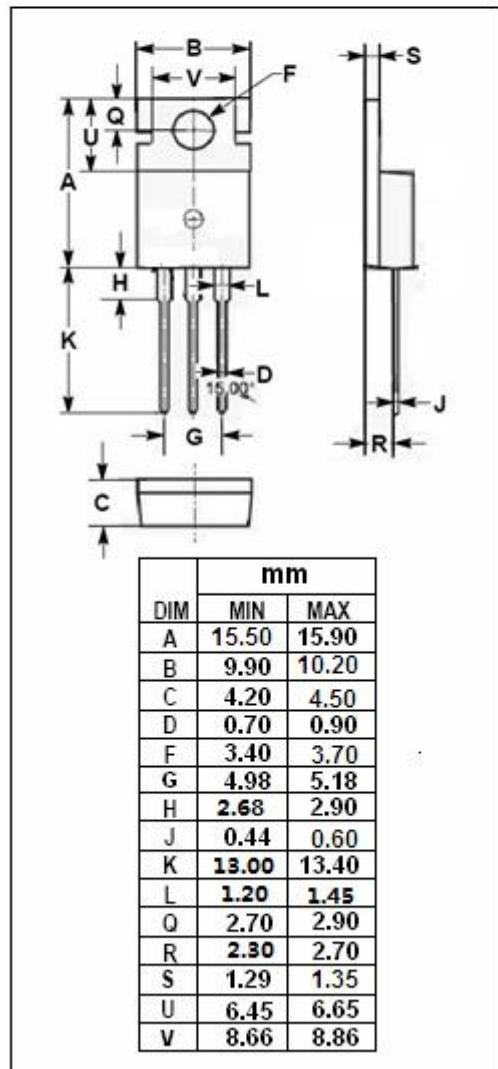
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 50V$ (Min)
- Low Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = 0.4V$ (Max) @ $I_C = 3.0A$
- Complement to Type 2SB824

**APPLICATIONS**

- Designed for relay drivers, high-speed inverters, converters, and other general large-current switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	5	A
I_{CM}	Collector Current-Peak	9	A
P_c	Collector Power Dissipation @ $T_c=25^\circ C$	30	W
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-55~150	°C



SPTECH Product Specification

SPTECH Silicon NPN Power Transistor

2SD1060

ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA ; I _E = 0	60			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; R _{BE} = ∞	50			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			0.4	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 40V ; I _E =0			100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V ; I _E =0			100	μ A
h_{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 2V	70		280	
h_{FE-2}	DC Current Gain	I _C = 3A ; V _{CE} = 2V	30			
f _T	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		30		MHz
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = 10V, f= 1MHz		100		pF

Switching times

t _{on}	Turn-on Time	I _C = 2A , I _{B1} = I _{B2} = 0.2A R _L = 10 Ω ; V _{CC} = 20V		0.1		μ s
t _{stg}	Storage Time			1.4		μ s
t _f	Fall Time			0.2		μ s

◆ h_{FE-1} Classifications

Q	R	S
70-140	100-200	140-280

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](#) [MMBT-2369-TR](#) [BC546/116](#) [BC557/116](#) [BSW67A](#) [NJVMJD148T4G](#) [NTE123AP-10](#) [NTE153MCP](#) [NTE16](#)
[NTE195A](#) [NTE92](#) [C4460](#) [2N4401-A](#) [2N6728](#) [2SA1419T-TD-H](#) [2SA2126-E](#) [2SB1204S-TL-E](#) [2SC2712S-GR,LF](#) [2SC5488A-TL-H](#)
[2SD2150T100R](#) [SP000011176](#) [2N2907A](#) [2N3904-NS](#) [2N5769](#) [2SC2412KT146S](#) [2SD1816S-TL-E](#) [CPH6501-TL-E](#) [MCH4021-TL-E](#)
[MJE340](#) [US6T6TR](#) [NJK0281DG](#) [732314D](#) [CPH3121-TL-E](#) [CPH6021-TL-H](#) [873787E](#) [IMZ2AT108](#) [UMX21NTR](#) [MCH6102-TL-E](#) [FP204-](#)
[TL-E](#) [NJK0302DG](#) [2N3583](#) [2SA2014-TD-E](#) [2SC2812-5-TB-E](#) [30A02MH-TL-E](#) [NSV40301MZ4T1G](#) [NTE13](#) [NTE26](#) [NTE282](#) [NTE323](#)