

isc Silicon NPN Power Transistor

2SC2526

DESCRIPTION

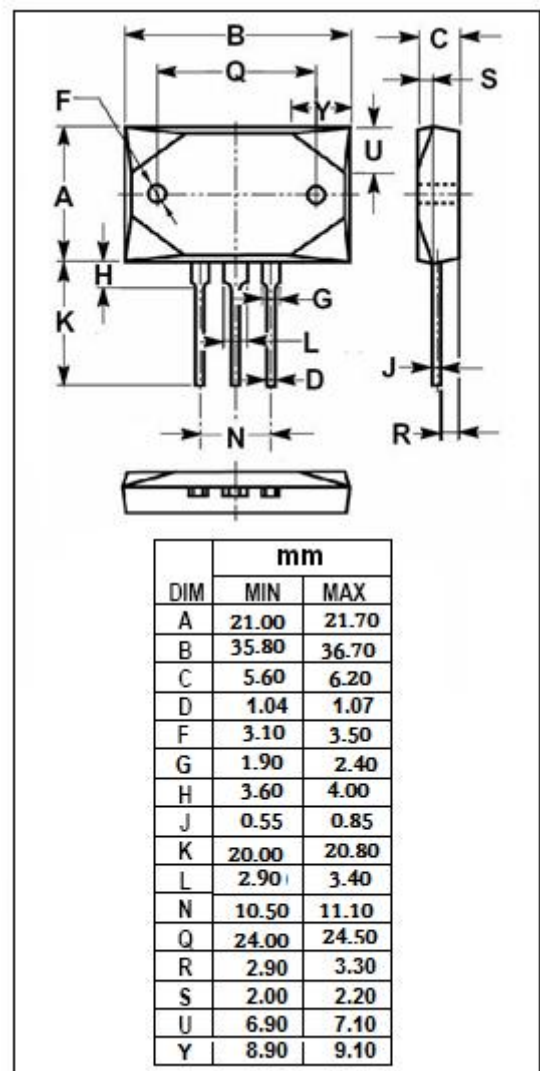
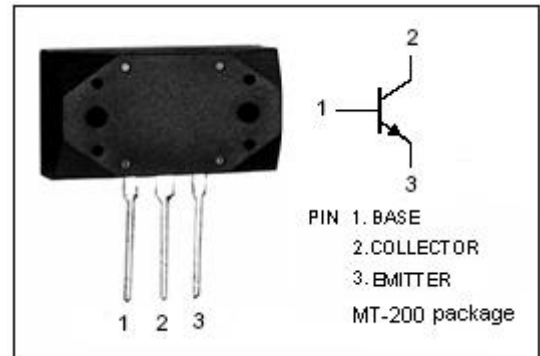
- High Collector-Emitter Breakdown Voltage-
 $V_{(BR)CEO} = 160V(\text{Min})$
- Good Linearity of h_{FE}
- Complement to Type 2SA1076
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for audio and general purpose applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	160	V
V_{CEO}	Collector-Emitter Voltage	160	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	12	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	120	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)EBO}	Emitter –Base Breakdown Voltage	I _C = 50uA ; I _B = 0	7			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	160			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 50uA ; I _B = 0	160			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A		0.9	1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			50	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C =0			50	μ A
h _{FE}	DC Current Gain	I _C =1A; V _{CE} = 5V	60		200	
h _{FE}	DC Current Gain	I _C = 7A; V _{CE} = 5V	40			
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		300	470	pF
f _T	Current-Gain—Bandwidth Product	I _E = 1A; V _{CE} = 10V, f=10MHZ	45	60		MHz

Switching times

t _{on}	Turn-on Time	I _C = 7.5A , R _L = 4 Ω , I _{B1} = -I _{B2} = 0.75A		0.15		μ s
t _{stg}	Storage Time			0.5		μ s
t _f	Fall Time			0.11		μ s

isc Silicon NPN Power Transistor**2SC2526****NOTICE:**

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