

isc Silicon PNP Power Transistor

2SA1725

DESCRIPTION

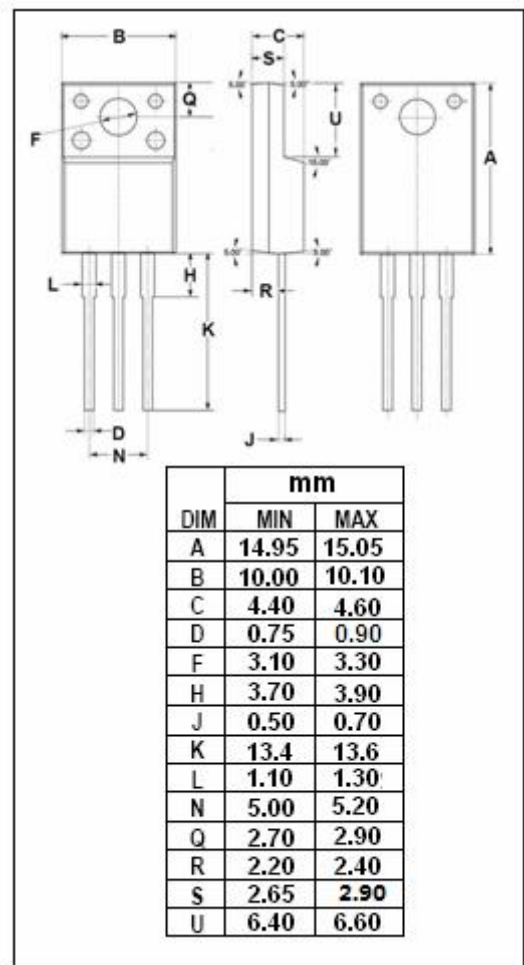
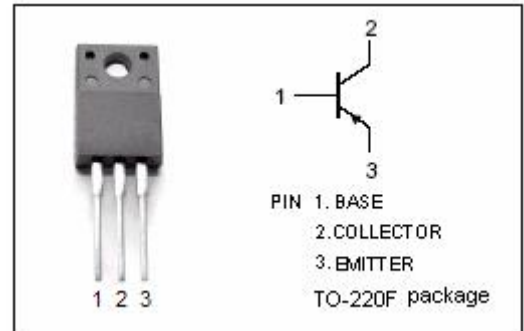
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -0.5(V)(Max) @ I_C = -2A$
- High Switching Speed
- Complement to Type 2SC4511
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for audio and general purpose applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-6	A
I_B	Base Collector Current-Continuous	-3	A
P_C	Total Power Dissipation @ $T_C=25^\circ C$	30	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



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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	-80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-0.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-10	μ A
h _{FE}	DC Current Gain	I _C = -2A ; V _{CE} = -4V	50		180	
f _T	Current-Gain—Bandwidth Product	I _E = 0.5A ; V _{CE} = -12V		20		MHz
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -10V; f _{test} = 1MHz		150		pF

Switching Times

t _{on}	Turn-on Time	I _C = -3A ,R _L = 10 Ω , I _{B1} = -I _{B2} = -0.3A,V _{CC} = -30V		0.18		μ s
t _{stg}	Storage Time			1.10		μ s
t _f	Fall Time			0.21		μ s

◆ h_{FE} Classifications

O	P	Y
50-100	70-140	90-180

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