

isc Silicon PNP Power Transistor

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : $V_{CE(sat)} = -0.6V(Max.)@I_{C} = -1.5A$
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= -80V(Min)
- Complement to Type 2N6123
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

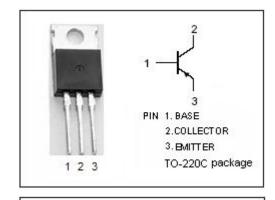
Designed for use in power amplifier and switching circuits applications

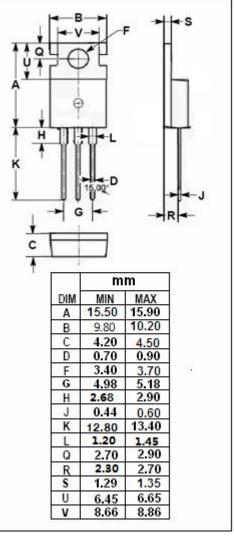
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	ER VALUE	
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-4	А
I _{CM}	Collector Current-Peak	-8	А
lΒ	Base Current	-1	А
Pc	Collector Power Dissipation @ Tc=25℃	40	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
Rth j-c	Thermal Resistance, Junction to Case		°C/W







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2N6126

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -50mA; I _B = 0	-80		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -1.5A; I _B = -0.15A		-0.6	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -1.0A		-1.4	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -1.5A; V _{CE} = -2V		-1.2	V
I _{CEX}	Collector Cutoff Current	V _{CE} = -80V; V _{BE(off)} = -1.5V V _{CE} = -80V; V _{BE(off)} = -1.5V;T _C = 150°C		-0.1 -2.0	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -80V; I _B = 0		-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-1.0	mA
h _{FE-1}	DC Current Gain	I _C = -1.5A; V _{CE} = -2V	20	80	
h _{FE-2}	DC Current Gain	I _C = -4A; V _{CE} = -2V	7		
f⊤	Current-Gain—Bandwidth Product	I _C = -1.0A; V _{CE} = -4V, f _{test} = 1.0MHz	2.5		MHz

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