

isc Silicon NPN Power Transistor

KT815A

DESCRIPTION

- High Collector Current-I_C= 1.5A
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 40V(Min)
- Good Linearity of h_{FE}
- Low Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

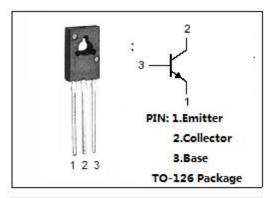


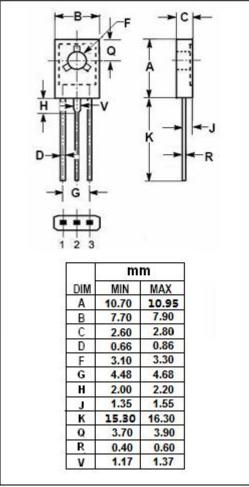
APPLICATIONS

Designed for power amplifier applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	60	V	
Vceo	Collector-Emitter Voltage	40	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	1.5	А	
Іср	Collector Current-Pulse	2	А	
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	10	· w	
	Collector Power Dissipation @ T _a =25 °C	1		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 100 μ A ; I _E = 0	60			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; R _{BE} = ∞	40			V
V _{(BR)EBO}	Emitter-Base Breakdown VItage	I _E = 100 μ A ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 500mA; I _B = 50mA			0.6	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 500mA; I _B = 50mA			1.2	V
Ісво	Collector Cutoff Current	V _{CB} = 60V; I _E = 0			10	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μ А
h _{FE-1}	DC Current Gain	I _C = 50mA ; V _{CE} = 5V	40		275	
h _{FE-2}	DC Current Gain	Ic= 500mA ; VcE= 5V	20			

NOTICE:

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