

isc Silicon NPN Power Transistor

BD635

DESCRIPTION

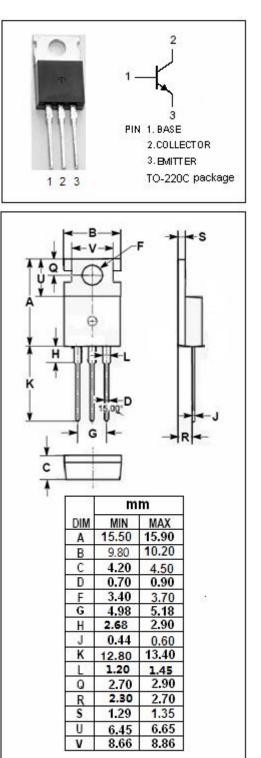
- DC Current Gain -
- : h_{FE} = 40(Min.)@ I_C= 25mA
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 60V(Min.)
- Complement to Type BD636
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	2	А	
Ісм	Collector Current-Peak	5	А	
I _B	Base Current-Continuous	0.3	А	
Pc	Collector Power Dissipation (@ $T_a=25^{\circ}C$	2	W	
	Collector Power Dissipation @ $T_c=25^{\circ}C$	30		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	
	1	I	L	



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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	60		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 0.1mA; I _E = 0	60		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A		0.6	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A; V _{CE} = 2V		1.3	V
I _{CES}	Collector Cutoff Current	V _{CE} = 60V; V _{BE} = 0		0.2	mA
h _{FE-1}	DC Current Gain	Ic= 25mA; Vce= 2V	40		
h _{FE-2}	DC Current Gain	Ic= 1A; Vce= 2V	25		

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