

isc Silicon PNP Power Transistor

BD638

DESCRIPTION

- DC Current Gain -
- : h_{FE} = 40(Min.)@ I_C= -25mA
- · Collector-Emitter Breakdown Voltage-
 - : $V_{(BR)CEO}$ = -80V(Min.)
- Complement to Type BD637
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

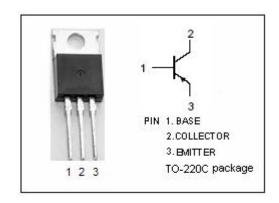


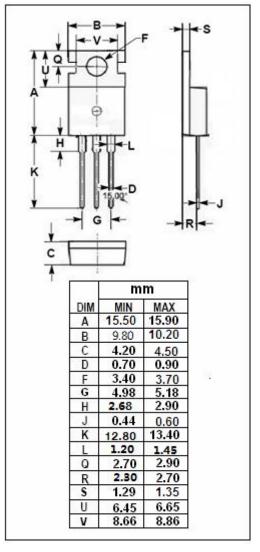
APPLICATIONS

· Designed for amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-100	V	
Vceo	Collector-Emitter Voltage	-80	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
I _C	Collector Current-Continuous	-2	Α	
Ісм	Collector Current-Peak	-5	Α	
I_{B}	Base Current-Continuous	-0.3	Α	
Pc	Collector Power Dissipation @ Ta=25°C	2	W	
	Collector Power Dissipation @ T _c =25℃	30		
TJ	Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-80		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -0.1mA; I _E = 0	-100		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-5		٧
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -0.1A		-0.6	V
V _{BE(on)}	Base-Emitter On Voltage	Ic= -1A; VcE= -2V		-1.3	V
I _{CES}	Collector Cutoff Current	V _{CE} = -100V; V _{BE} = 0		-0.2	mA
h _{FE-1}	DC Current Gain	I _C = -25mA; V _{CE} = -2V	40		
h _{FE-2}	DC Current Gain	Ic= -1A; VcE= -2V	25		

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