

isc Silicon PNP Darlington Power Transistor
2SB1287
DESCRIPTION

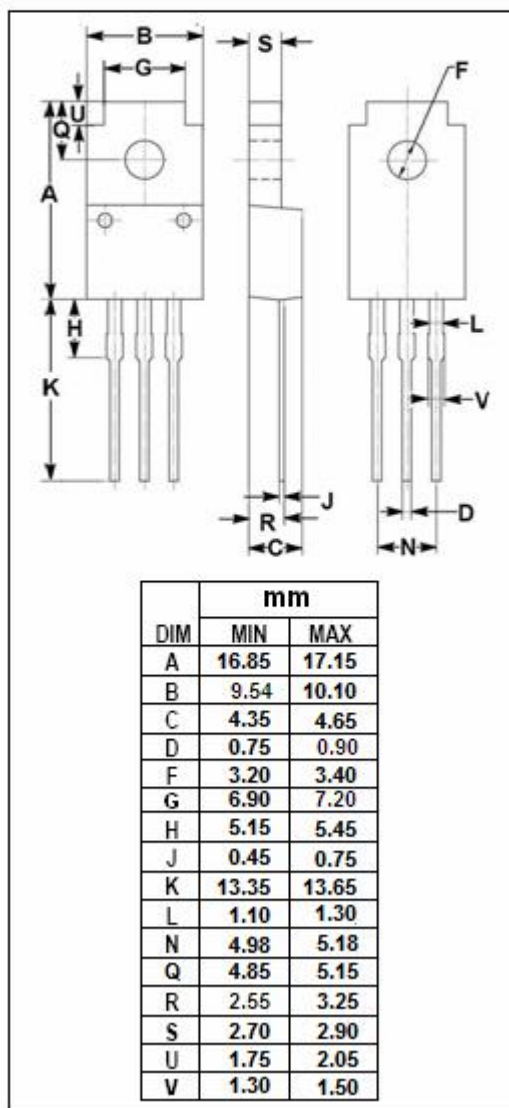
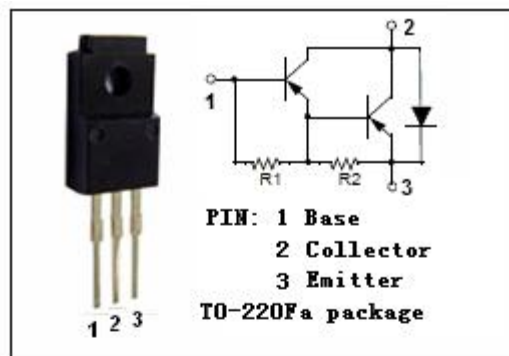
- High DC Current Gain-
: $h_{FE} = 1000(\text{Min}) @ I_C = -1\text{A}$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -100\text{V}(\text{Min})$
- Low Collector-Emitter Saturation Voltage
: $V_{CE(\text{sat})} = -1.5\text{V}(\text{Max}) @ I_C = -1\text{A}$
- Complement to Type 2SD1765
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for general purpose amplifier and low speed switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-8	V
I_C	Collector Current-Continuous	-2	A
I_{CM}	Collector Current-Peak	-3	A
P_C	Collector Power Dissipation $T_a = 25^\circ\text{C}$	2	W
	Collector Power Dissipation $T_C = 25^\circ\text{C}$	20	
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-55~150	°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 = -5mA, I _B = 0	-100			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -50 μ A, I _E = 0	-100			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -1mA			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0			-3	mA
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -2V	1000		10000	
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		35		pF

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