

isc Silicon PNP Power Transistor
MJD5731
DESCRIPTION

- Collector-Emitter Breakdown Voltage-
 $V_{(BR)CEO} = -350V(\text{Min})$
- Good Linearity of h_{FE}
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

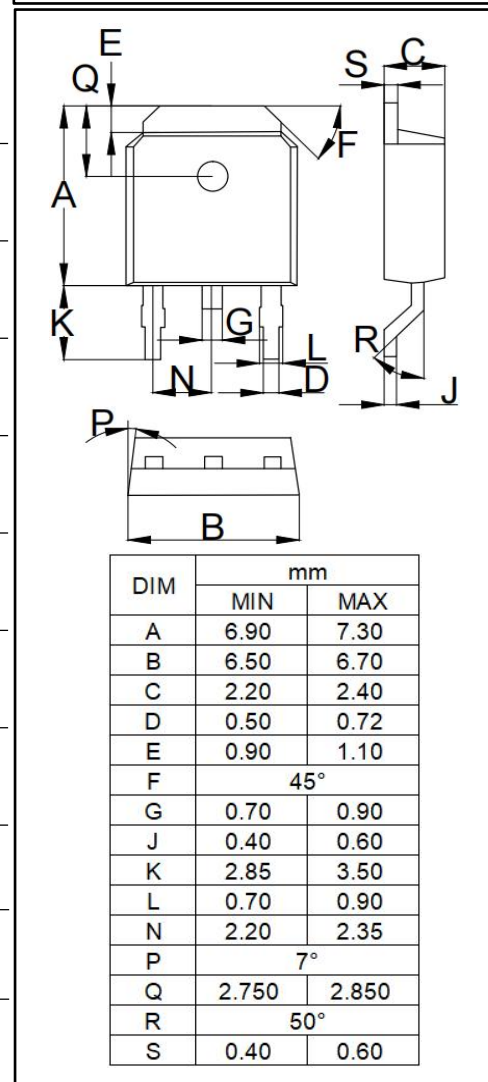
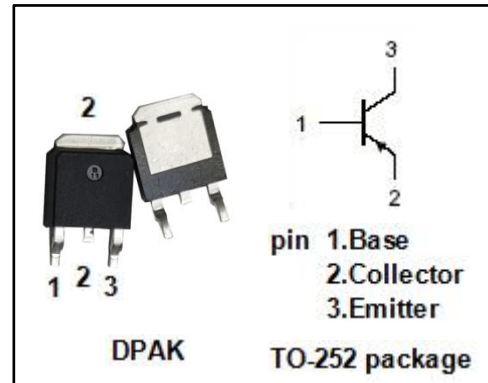
- For audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CEO}	Collector-Emitter Voltage	-350	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-1	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	15	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	8.33	$^\circ\text{C/W}$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA ; I _B = 0	-350		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1.0A; I _B = -0.2A		-1.0	V
V _{BE(on)}	Base-Emitter On voltage	I _C = -1.0A ; V _{CE} = -10V		-1.5	V
I _{CEO}	Collector Cutoff current	V _{CE} = -250V; I _B =0		-100	μ A
h _{FE -1}	DC Current Gain	I _C = -0.3A ; V _{CE} = -10V	30	175	
h _{FE -2}	DC Current Gain	I _C = -1.0A ; V _{CE} = -10V	10		

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