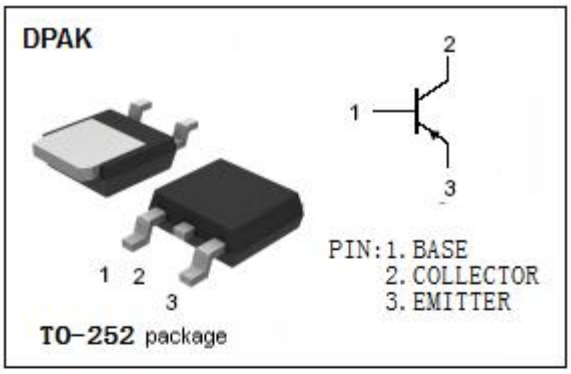
isc Silicon PNP Power Transistor — MJD350

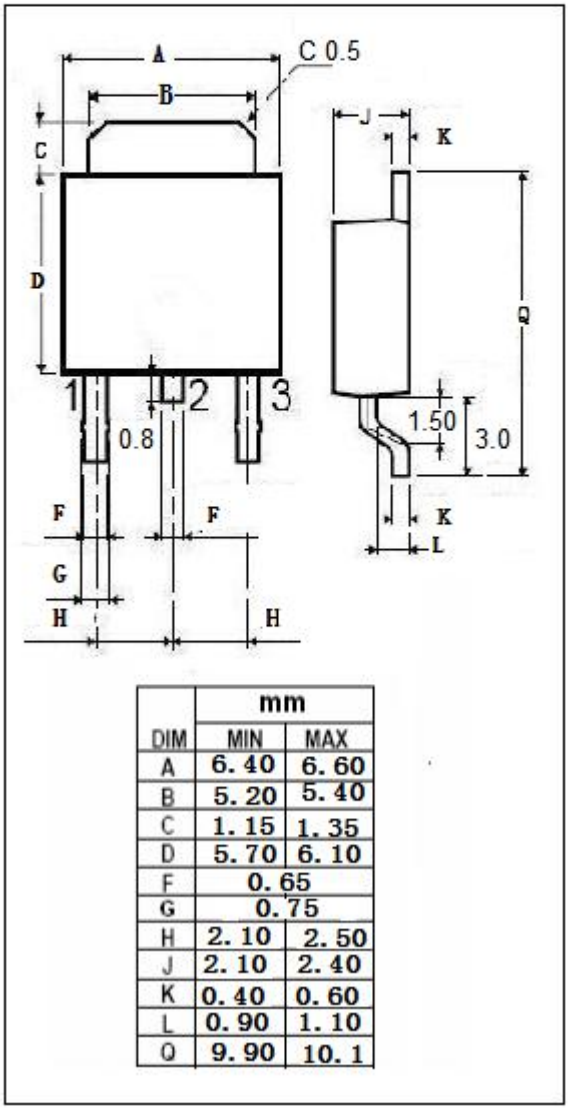
DESCRIPTION

- Collector–Emitter Sustaining Voltage–
  : $V_{CEO(SUS)}$ = -300 V(Min)
- Low Collector Saturation Voltage–
  : $V_{CE(sat)}$ = -1.0V(Max.)@ I_C= -50mA
- DPAK for Surface Mount Applications
- Complement to Type MJD340
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for line operated audio output amplifier, switchmode power supply drivers and other switching applications.





DIM	mm MIN	MAX
A	6.40	6.60
B	5.20	5.40
C	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
H	2.10	2.50
J	2.10	2.40
K	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-300	V
V_{CEO}	Collector-Emitter Voltage	-300	V
V_{EBO}	Emitter-Base Voltage	-3	V
I_C	Collector Current-Continuous	-0.5	A
I_{CM}	Collector Current-Peak	-0.75	A
P_C	Collector Power Dissipation T_C=25℃	15	W
	Collector Power Dissipation T_a=25℃	1.56	
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-65~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	8.33	℃/W
$R_{th\ j\text{-}a}$	Thermal Resistance,Junction to Ambient	80	℃/W

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ELECTRICAL CHARACTERISTICS

T_C =25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= -1.0mA; I_B= 0	-300		V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -1.0mA; I_E= 0	-300		V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -1.0mA; I_C= 0	-3		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -50mA; I_B= -5mA		-1.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -300V; I_E= 0		-0.1	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -3V; I_C= 0		-0.1	mA
h_{FE}	DC Current Gain	I_C= -50m A ; V_{CE}= -10V	30	240	

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