

SMD High Voltage Transistor (NPN)

Features

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



D-PACK
(TO-252)



Mechanical Data

Case:	D-PACK(TO-252), Plastic Package
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	0.3 grams

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	MJD340	Unit
	Marking Code	MJD340	
V _{CB0}	Collector-Base Voltage	300	V
V _{CE0}	Collector-Emitter Voltage	300	V
V _{EB0}	Emitter-Base Voltage	3	V
I _C	Collector Current Continuous	500	mA
I _C	Collector Current Peak	750	mA
P _D	Power Dissipation at T _C =25°C	15	W
	Derate above 25°C	0.12	W/°C
P _D	Power Dissipation at T _A =25°C	1.56	W
	Derate above 25°C	0.012	W/°C
*R _{thJA}	Thermal Resistance from Junction to Ambient	80	°C/W

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Symbol	Description	MJD340	Unit
RthJC	Thermal Resistance from Junction to Case	8.33	° C/W
TL	Lead Temperature for Soldering Purpose	260	° C
TJ, TSTG	Operating and Storage Junction Temperature Range	-65 to +150	° C

Electrical Characteristics ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	MJD340		Unit	Conditions
		Min.	Max.		
hFE	D.C. Current Gain	30	240		$V_{CE}=10\text{V}$, $I_C=50\text{mA}$
**V_{CEO(sus)}	Collector-Emitter Sustaining Voltage	300	-	V	$I_C=1\text{mA}$, $I_B=0$
I_{EBO}	Collector-Emitter Cut-off Current	-	0.1	mA	$V_{EB}=3\text{V}$, $I_C=0$
I_{CBO}	Collector-Base Cut-off Current	-	0.1	mA	$V_{CB}=300\text{V}$, $I_E=0$

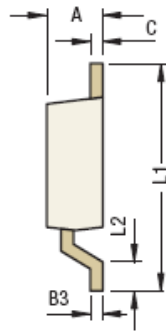
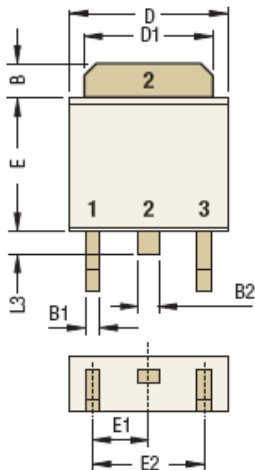
*When Surface Mounted on Minimum Pad Size Recommended

**Pulse Test: Pulse Width $\leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$

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Dimensions in mm



DIM	Min	Max
A	2.18	2.43
B	0.889	1.500
B1	0.550	0.889
B2	0.75	0.85
B3	0.46	0.56
C	0.46	0.56
D	6.35	6.75

DIM	Min	Max
D1	4.95	5.46
E	5.40	6.22
E1	2.25	2.35
E2	4.50	4.70
L1	9.25	9.75
L2	0.50	—
L3	0.90	1.10

Pin Configuration Pin 1: Base Pin 2: Collector Pin 3: Emitter

**D-PACK
(TO-252)**

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