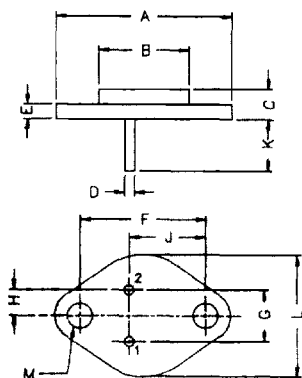


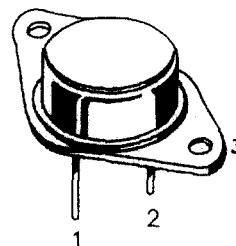
2SD350 NPN POWER TRANSISTOR

Horizontal Deflection Output Applications



ALL DIMENSIONS ARE IN M.M.

DIM	MIN	MAX
A	-	39,37
B	-	22,22
C	6,35	8,50
D	0,96	1,09
E	-	1,77
F	29,90	30,4
G	10,69	11,18
H	5,20	5,72
J	16,64	17,15
K	11,15	12,25
L	-	26,67
M	3,84	4,19



PIN CONFIGURATION

1. BASE
2. EMITTER
3. COLLECTOR

**ABSOLUTE MAXIMUM RATINGS**

Collector-base voltage (open emitter)	$V_{CBO}$	max.	1500 V
Collector-emitter voltage (open base)	$V_{CEO}$	max.	700 V
Collector current	$I_C$	max.	5 A
Total power dissipation up to $T_C = 90^\circ C$	$P_{tot}$	max.	35 W
Junction temperature	$T_j$	max.	200 °C
Collector-emitter saturation voltage $I_C = 4.5A; I_B = 2A$	$V_{CEsat}$	max.	5 V
D.C. current gain $I_C = 4A; V_{CE} = 10V$	$h_{FE}$	min.	3.0
		max.	8.0

**RATINGS** (at  $T_A=25^\circ C$  unless otherwise specified)

Limiting values

Collector-base voltage (open emitter)	$V_{CBO}$	max.	1500 V
Collector-emitter voltage (open base)	$V_{CEO}$	max.	700 V
Collector-emitter voltage ( $V_{BE} \approx 0$ )	$V_{CES}$	max.	1500 V
Emitter-base voltage (open collector)	$V_{EBO}$	max.	5 V

Collector current	$I_C$	max.	5 A
Collector current (peak)	$I_{CP}$	max.	7 A
Emitter current	$I_E$	max.	7.0 A
Total power dissipation up to $T_C = 90^\circ\text{C}$	$P_{tot}$	max.	35 W
Junction temperature	$T_j$	max.	200 $^\circ\text{C}$
Storage temperature	$T_{stg}$		-65 to +200 $^\circ\text{C}$

**CHARACTERISTICS**
 $T_{amb} = 25^\circ\text{C}$  unless otherwise specified

**Collector cut-off current**
 $I_E = 0; V_{CB} = 750\text{V}$ 
 $I_{CBO}$  max. 100  $\mu\text{A}$ 
 $I_E = 0; V_{CB} = 1500\text{V}$ 
 $I_{CBO}$  max. 1 mA

**Breakdown voltages**
 $I_C = 1\text{ mA}; I_B = 0$ 
 $V_{CEO}$  min. 700 V

 $I_C = 1\text{ mA}; I_E = 0$ 
 $V_{CBO}$  min. 1500 V

 $I_E = 50\text{ mA}; I_C = 0$ 
 $V_{EBO}$  min. 5 V

**Saturation voltages**
 $I_C = 4.5\text{A}; I_B = 2\text{A}$ 
 $V_{CEsat}^*$  max. 5.0 V

 $V_{BEsat}^*$  max. 1.6 V

**D.C. current gain**
 $I_C = 4\text{A}; V_{CE} = 10\text{V}$ 
 $h_{FE}^*$  min. 3.0

max. 8.0

**Switching time**
 $I_C = 4\text{A}; I_{B(end)} = 2.5\text{A};$ 
 $L_B = 10\mu\text{H}$ 
**Fall time**
 $t_f$  max. 1.0  $\mu\text{s}$ 
**Storage time**
 $t_s$  typ. 13  $\mu\text{s}$ 

\* Pulse test.