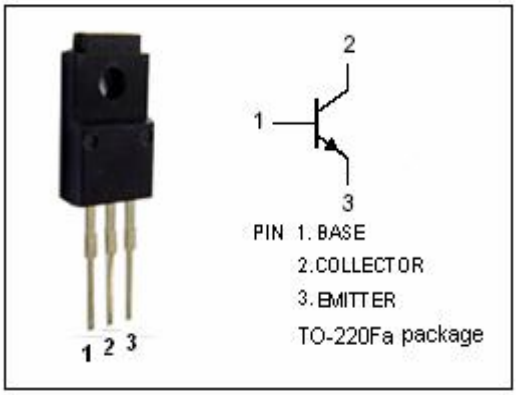
isc Silicon NPN Power Transistor — 2SD1575

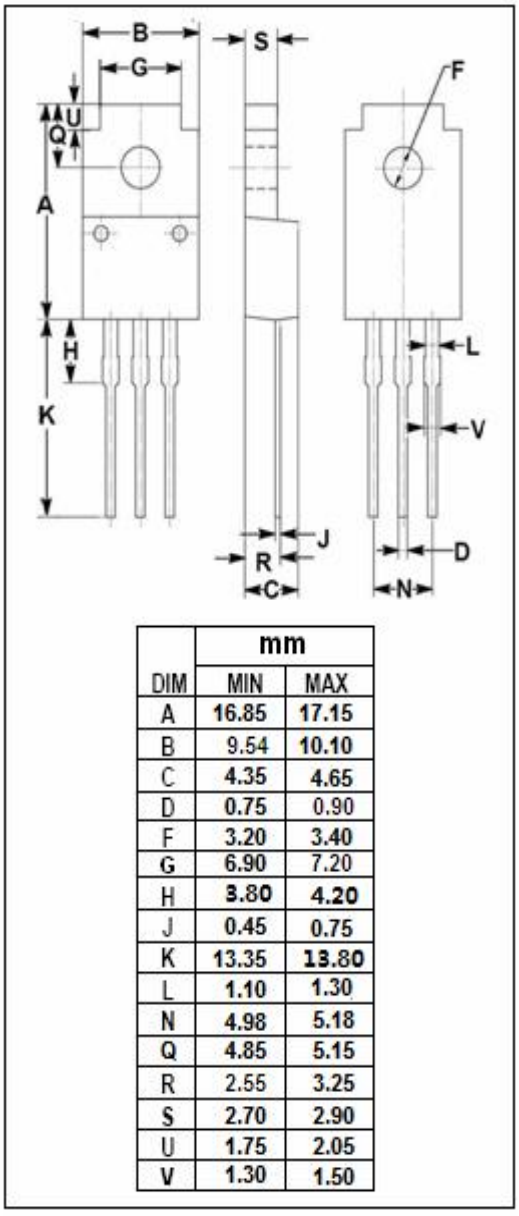
DESCRIPTION

- High Breakdown Voltage-
  : V_{CBO}= 1200V (Min)
- High Switching Speed
- High Reliability
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Designed for horizontal deflection output applications



DIM	mm MIN	mm MAX
A	16.85	17.15
B	9.54	10.10
C	4.35	4.65
D	0.75	0.90
F	3.20	3.40
G	6.90	7.20
H	3.80	4.20
J	0.45	0.75
K	13.35	13.80
L	1.10	1.30
N	4.98	5.18
Q	4.85	5.15
R	2.55	3.25
S	2.70	2.90
U	1.75	2.05
V	1.30	1.50

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1200	V
V_{CES}	Collector-Emitter Voltage	1200	V
V_{CEO}	Collector-Emitter Voltage	700	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current- Continuous	2	A
I_{CP}	Collector Current-Peak	6	A
I_{BP}	Base Current-Peak	2.5	A
I_{BP}	Reverse Base Current-Peak	1.5	A
P_C	Collector Power Dissipation @ T_C=25℃	40	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= 1mA ; I_C= 0	6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 2A; I_B= 1A			5.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 2A; I_B= 1A			1.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 750V ; I_E= 0			50	μA
		V_{CB}= 1200V ; I_E= 0			1.0	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 6V ; I_C= 0			50	μA
h_{FE}	DC Current Gain	I_C= 2A; V_{CE}= 5V	2			
Switching times						
t_{stg}	Storage Time	I_C= 2.5A; $I_{B1(end)}$= 1.1A; L_B= 10 μH			9	μs
t_f	Fall Time				1.0	μs

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