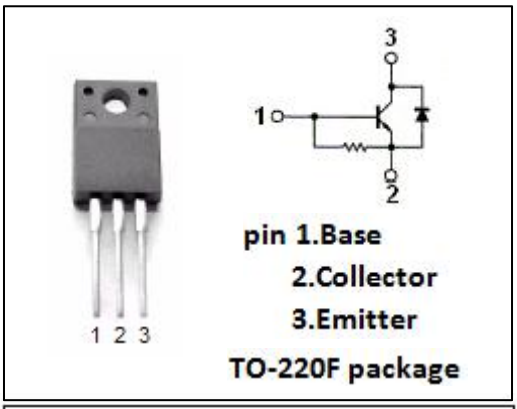
isc Silicon NPN Power Transistor — TT2140

DESCRIPTION

- High Breakdown Voltage-
  : V_{CBO}= 1500V (Min)
- High Switching Speed
- Low Collector Saturation Voltage-
  : $V_{CE(sat)}$= 3.0V(Max.)@ I_C= 3.15A
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

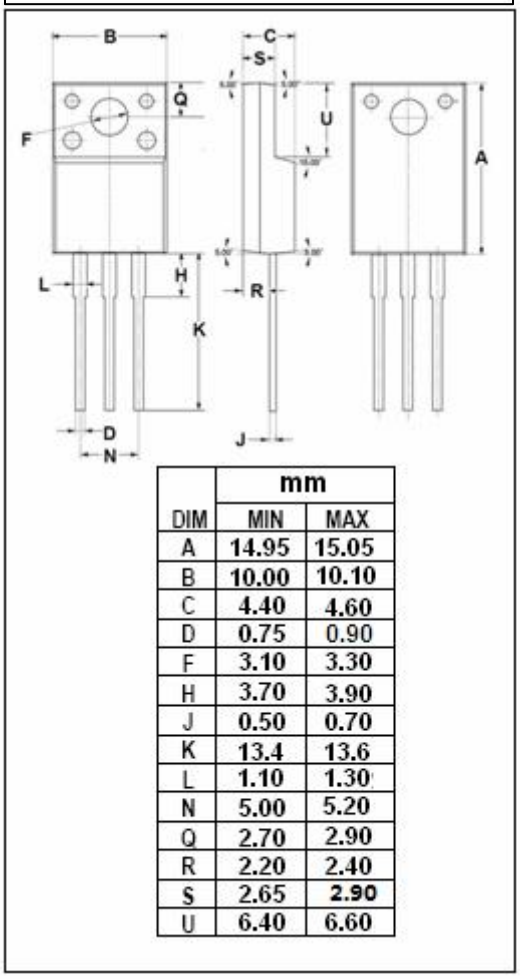


APPLICATIONS

- Designed for color TV horizontal output applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1500	V
V_{CEO}	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current- Continuous	6	A
I_{CP}	Collector Current (Pulse)	15	A
P_C	Collector Power Dissipation @ T_C= 25℃	30	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	MAX
A	14.95	15.05
B	10.00	10.10
C	4.40	4.60
D	0.75	0.90
F	3.10	3.30
H	3.70	3.90
J	0.50	0.70
K	13.4	13.6
L	1.10	1.30
N	5.00	5.20
Q	2.70	2.90
R	2.20	2.40
S	2.65	2.90
U	6.40	6.60

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_{EBO}	Emitter-Base Breakdown Voltage	I_E= 200mA; I_C= 0	6		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 3.15A; I_B= 0.63A		3.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 3.15A; I_B= 0.63A		1.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 800V; I_E= 0		10	μA
h_{FE-1}	DC Current Gain	I_C= 0.5A; V_{CE}= 5V	10		
h_{FE-2}	DC Current Gain	I_C= 3.5A; V_{CE}= 5V	5	8	

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