

isc Silicon NPN Power Transistor
TT2140
DESCRIPTION

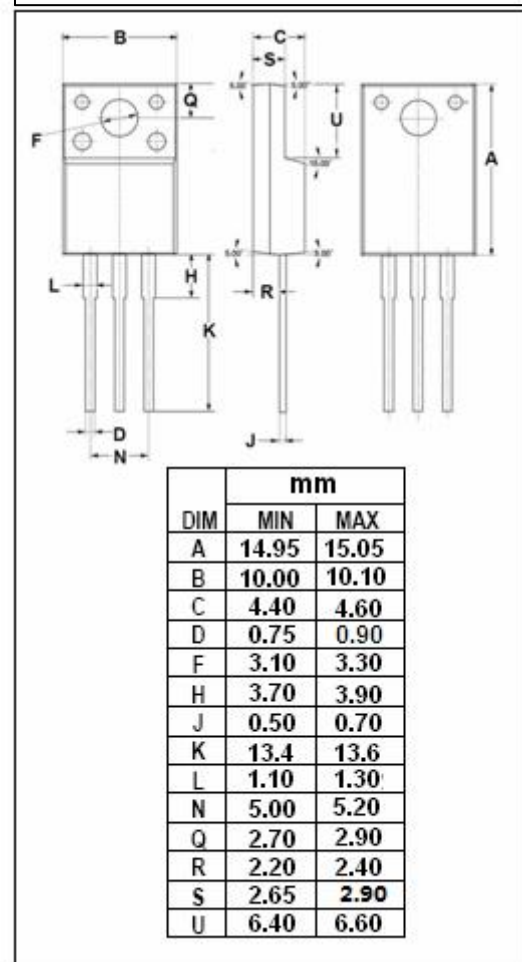
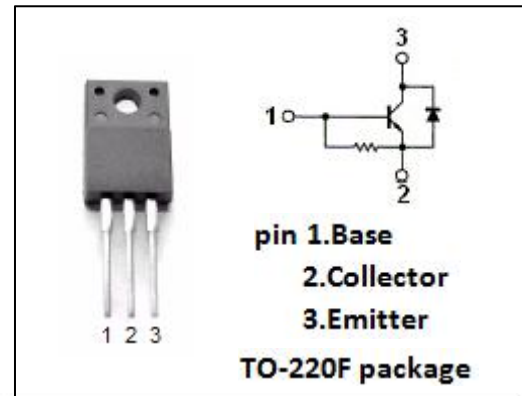
- High Breakdown Voltage-
: $V_{CBO} = 1500V$ (Min)
- High Switching Speed
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = 3.0V$ (Max.) @ $I_C = 3.15A$
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for color TV horizontal output applications.

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ C$)

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 @ $T_C = 25^\circ C$	30	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon NPN Power Transistor**TT2140****ELECTRICAL CHARACTERISTICS****T_c=25°C 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	μ A
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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