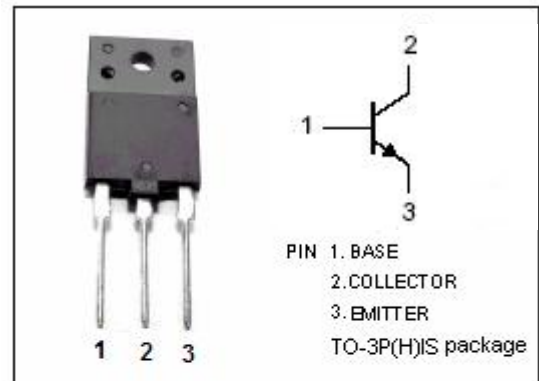


isc Silicon NPN Power Transistor
2SD2498
DESCRIPTION

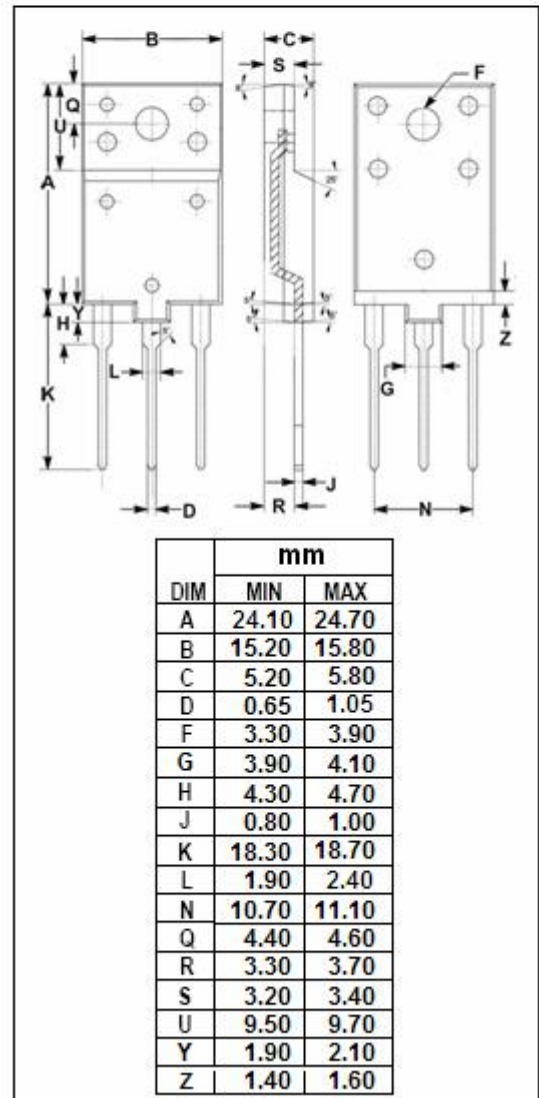
- High Breakdown Voltage-
: $V_{CBO} = 1500V$ (Min)
- High Switching Speed
- Low Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Horizontal deflection output for high resolution display, color TV
- High speed switching 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	600	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current- Continuous	6	A
I_{CP}	Collector Current- Pulse	12	A
I_B	Base Current- Continuous	3	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ C$	50	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon NPN Power Transistor

2SD2498

ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10mA; I _C = 0	600			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4.0A; I _B = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4.0A; I _B = 0.8A			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 1500V ; I _E = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V ; I _C = 0			10	μA
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	10		30	
h _{FE-2}	DC Current Gain	I _C = 4A ; V _{CE} = 5V	5		9	
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A ; V _{CE} = 10V		2		MHz
C _{OB}	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f _{test} = 1.0MHz		95		pF

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