

isc Silicon NPN Power Transistor

2SD2524

DESCRIPTION

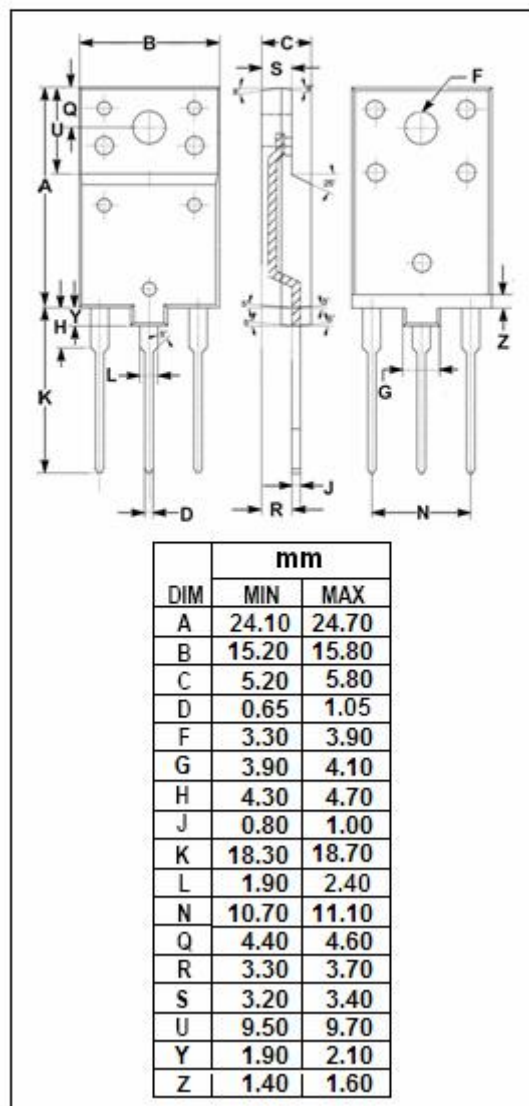
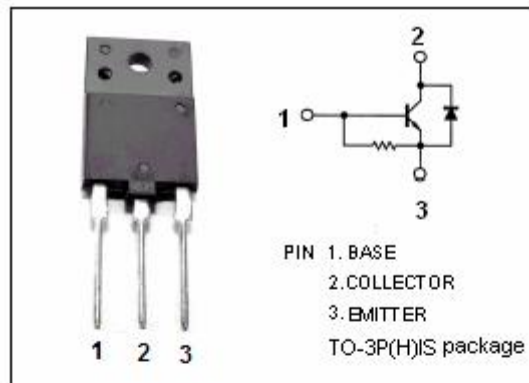
- High Breakdown Voltage-
: $V_{CBO} = 1700V$ (Min)
- High Switching Speed
- Low Saturation Voltage
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for horizontal deflection output applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1700	V
V_{CES}	Collector-Emitter Voltage	1700	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current- Continuous	8	A
I_{CM}	Collector Current-Peak	20	A
I_{BM}	Base Current-Peak	5	A
P_C	Collector Power Dissipation @ $T_c = 25^\circ C$	100	W
	Collector Power Dissipation @ $T_a = 25^\circ C$	3	
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



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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 = 200mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 2A			3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 2A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 1000V; I _E = 0			50	μ A
		V _{CB} = 1700V; I _E = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 6A; V _{CE} = 5V	4		10	
V _{ECF}	C-E Diode Forward Voltage	I _F = 8A			2.0	V
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V		3		MHz

Resistive Load

t _s	Storage Time	I _C = 6A, I _{B(end)} = 2A, L _{leak} = 5 μ H			12	μ s
t _f	Fall Time				0.8	μ s

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