

isc Silicon NPN Power Transistor

2SC4924

DESCRIPTION

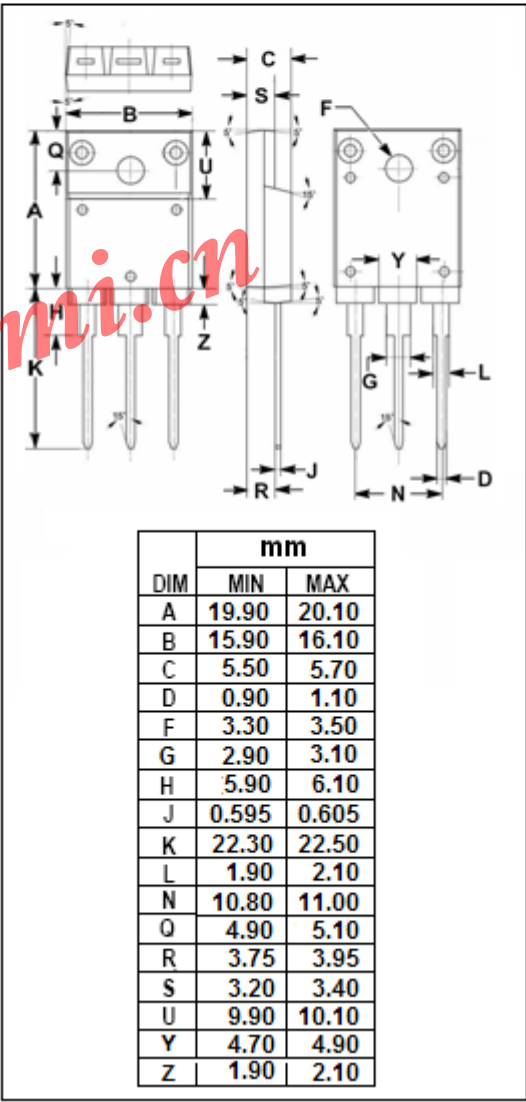
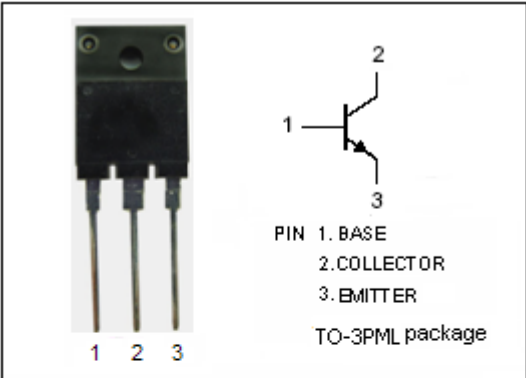
- High Breakdown Voltage-
: $V_{(BR)CBO}=1500V(\text{Min})$
- High Switching Speed
- High Reliability

APPLICATIONS

- Very high-definition CRT display horizontal deflection output applications

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

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	10	A
I_{CP}	Collector Current-Peak	25	A
P_C	Collector Power Dissipation @ $T_a=25^{\circ}\text{C}$	3.0	W
	Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$	70	
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



isc Silicon NPN Power Transistor**2SC4924****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C=0.1\text{A}; I_B=0$	800			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=8\text{A}; I_B=2\text{A}$			5.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C=8\text{A}; I_B=2\text{A}$			1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=800\text{V}; I_E=0$			10	μA
I_{CEO}	Collector Cutoff Current	$V_{CE}=1500\text{V}; R_{BE}=0$			1.0	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=4\text{V}; I_C=0$			1.0	mA
h_{FE-1}	DC current gain	$I_C=1\text{A}; V_{CE}=5\text{V}$	8			
h_{FE-2}	DC current gain	$I_C=8\text{A}; V_{CE}=5\text{V}$	4		8	

Switching times

t_{stg}	Storage Time	$I_C=6\text{A}; I_{B1}=1.2\text{A}; I_{B2}=-2.4\text{A}$ $R_L=33.3\Omega; V_{CC}=200\text{V}$			3.0	μs
t_f	Fall Time				0.2	μs