

isc Silicon NPN Power Transistor

2SD2499

DESCRIPTION

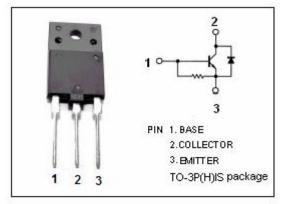
- High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- · High Switching Speed
- Low Saturation Voltage
- · Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

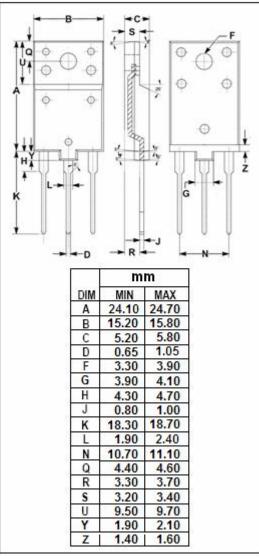
APPLICATIONS

· Color TV horizontal deflection output applications



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1500	V	
VCEO	Collector-Emitter Voltage	600	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current- Continuous	6	А	
Іср	Collector Current- Pulse	12	A	
l _Β	Base Current- Continuous	3	Α	
Pc	Collector Power Dissipation @ T _C =25 °C	50	W	
Тл	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ 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 = 4A; I _B = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			1.3	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	67		200	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8		25	
h _{FE-2}	DC Current Gain	I _C = 4A ; V _{CE} = 5V	5		9	
V _{ECF}	C-E Diode Forward Voltage	I _F = 6A			2.0	V
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A ; V _{CE} = 10V		2		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f _{test} =1.0MHz		95		pF

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