

isc Silicon NPN Power Transistor

2SD898

DESCRIPTION

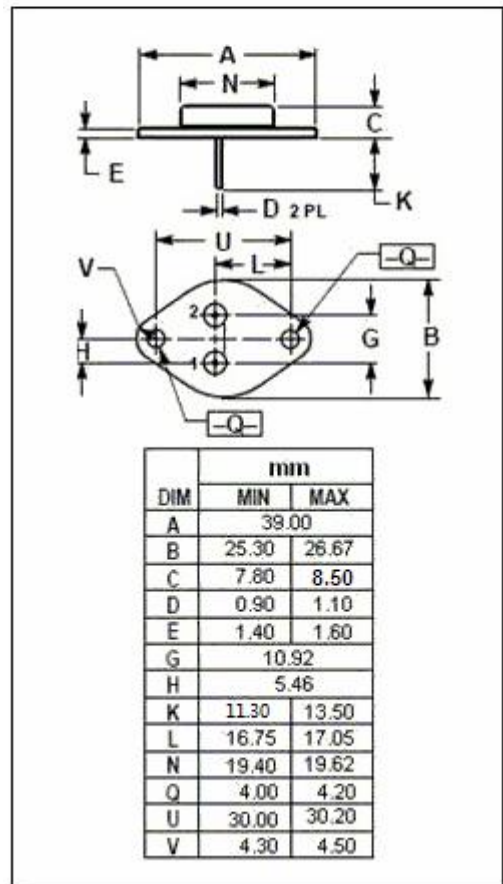
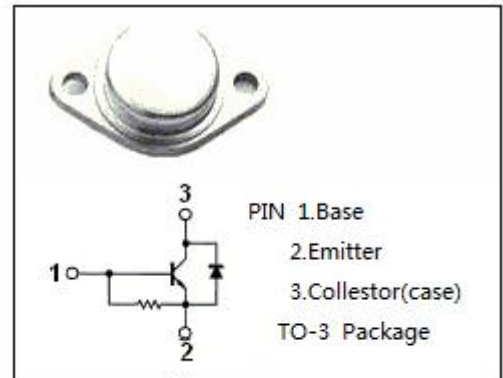
- High Breakdown Voltage-
: $V_{CBO} = 1500V$ (Min)
- High Switching Speed
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = 5.0V$ (Max.) @ $I_C = 2.5A$
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in color TV deflection circuits.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CES}	Collector- Emitter Voltage	1500	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current- Continuous	3	A
I_{CM}	Collector Current- Peak	3.5	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	-45~150	$^\circ C$



isc Silicon NPN Power Transistor**2SD898****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{EB0}	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	6.0			V
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V ; V _{BE} = 0			0.5	mA
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.8A			1.5	V
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	8		36	
V _{ECF}	C-E Diode Forward Voltage	I _F = 3A			2.2	V
t _f	Fall Time	I _C = 2.75A, I _{B1} = 0.6A , I _{B2} = 1.3A			0.8	μs

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