

isc Silicon NPN Power Transistor

2SD900

DESCRIPTION

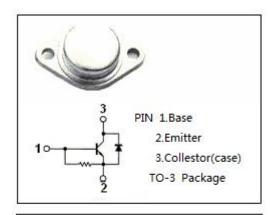
- · High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- · High Switching Speed
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 5.0V(Max.)@ I_C= 4.5A
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

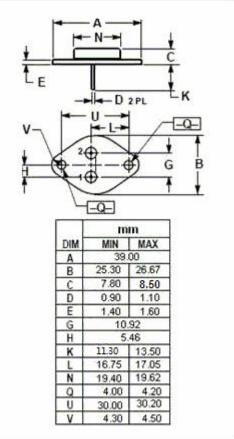


• Designed for use in color TV deflection circuits.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
Vces	Collector- Emitter Voltage	1500	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current- Continuous	5	Α
I _{CM}	Collector Current- Peak	6	А
Pc	Collector Power Dissipation @ T _C = 25 °C	50	W
TJ	Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature Range	-45~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{EBO}	Emitter-Base Breakdown Voltage	I _E = 300mA; 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 = 4.5A; I _B = 1.2A			5.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 4.5A; I _B = 1.2A			1.5	V
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	10		40	
VECF	C-E Diode Forward Voltage	I _F = 6A			3.0	V
t _f	Fall Time	I _C =4A, I _{B1} = 1.1A , I _{B2} = 1.6A			1.0	μS

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