

isc Silicon NPN Power Transistor

2SD822

DESCRIPTION

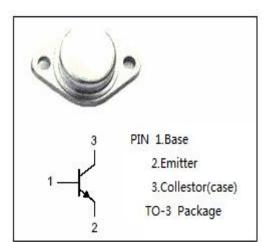
- High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- High Switching Speed
- Low Collector Saturation Voltage-: V_{CE(sat)}= 5.0V(Max.)@ I_C= 6A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

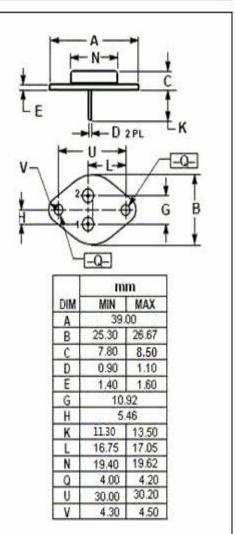
APPLICATIONS

Designed for color TV horizontal output applications.

SYMBOL	PARAMETER	VALUE	UNIT	
Vсво	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	600	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current- Continuous	7	А	
Ι _Ε	Emitter Current- Continuous	7	А	
Pc	Collector Power Dissipation @ $T_c \leq 90^{\circ}C$	50	W	
TJ	Junction Temperature	150	°C	
Tstg	Storage Temperature Range	-55~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





isc website: www.iscsemi.com

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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\!\!C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A		3.0	5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.5	V
I _{СВО}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μA
I _{EBO}	Emitter Cutoff Current	V_{EB} = 5V; I _C = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8	20		
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		165		pF
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V		3		MHz
tr	Fall Time	I _C = 6A, I _{Bend} = 1.2A		0.5	1.0	μ S

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