

isc Silicon NPN Power Transistor

2SD869

DESCRIPTION

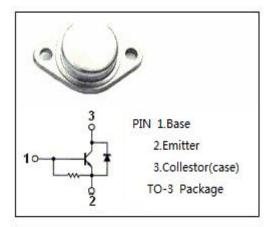
- · High Breakdown Voltage-
- : V_{СВО}= 1500V (Min)
- High Switching Speed
- Low Collector Saturation Voltage-
- : V_{CE(sat)}= 5.0V(Max.)@ I_C= 3A
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

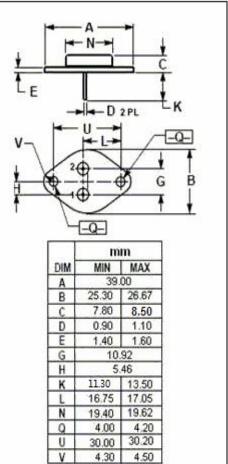
APPLICATIONS

· Designed for color TV horizontal output applications.



SYMBOL	PARAMETER	VALUE	UNIT
V _{сво}	Collector-Base Voltage	1500	
V _{CEO}	Collector-Emitter Voltage	600	V
V _{EBO}	Emitter-Base Voltage	se Voltage 5	
lc	Collector Current- Continuous 3.5		А
IE	Emitter Current- Continuous	3.5	А
Pc	Collector Power Dissipation @ T _C = 25℃	50	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C





isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	5.0			v
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.8A		5.0	8.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.8A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μA
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	8	12		
V _{ECF}	C-E Diode Forward Voltage	I _F = 3.5A		1.6	2.0	V
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		95		pF
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V		3		MHz
t _f	Fall Time	I _C = 3A, I _{Bend} = 0.8A		0.5	1.0	μ S

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