

isc Silicon NPN Power Transistor

2SC681

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
- : V_{CEO(SUS)}= 70V (Min)
- Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 2.0V(Max.)@ I_C= 5A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for use in B/W TV horizontal output applications.

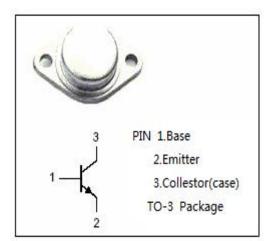
SYMBOL	PARAMETER	МАХ	UNIT	
V _{CBO}	Collector-Base Voltage	200	V	
V _{CEO}	Collector-Emitter Voltage	70	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	6	A	
Ісм	Collector Current-Peak	20	A	
IB	Base Current-Continuous	2	A	
Pc	Collector Power Dissipation @T _C =25℃	50	W	
Tj	Junction Temperature 150		°C	
T _{stg}	Storage Temperature Range -65~15		°C	

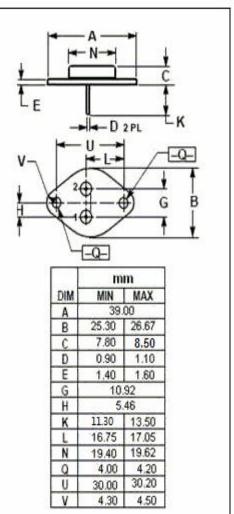
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	-c Thermal Resistance, Junction to Case		°C/W	

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	70			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5Α; I _B = 0.6Α			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5Α; I _B = 0.6Α			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	mA
t _f	Fall Time	I _C = 5A; V _{CC} = 25V			0.5	μ S

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