

ISC Silicon NPN Power Transistor

2SC5696

DESCRIPTION

- · High speed switching
- Built-in damper diode type
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

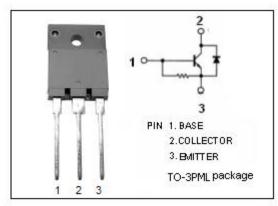


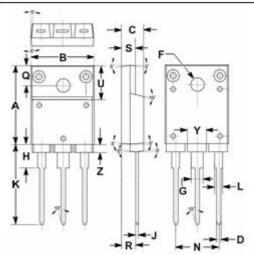
APPLICATIONS

 Designed for display horizontal deflection output Switching regulator and general purpose



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1600	V
Vceo	Collector-Emitter Voltage 80		V
V_{EBO}	Emitter-Base Voltage 5		V
Ic	Collector Current-Continuous	12	А
lв	Base Current-Continuous	3	А
P _C	Collector Power Dissipation @ T _C =25℃	85	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$





	mm		
DIM	MIN	MAX	
Α	19.90	20.10	
В	15.90	16.10	
С	5.50	5.70	
D	0.90	1.10	
F	3.30	3.50	
G	2.90	3.10	
Н	5.90	6.10	
J	0.595	0.605	
K	22.30	22.50	
L	1.90	2.10	
N	10.80	11.00	
Q	4.90	5.10	
R	3.75	3.95	
S	3.20	3.40	
U	9.90	10.10	
Y	4.70	4.90	
Z	1.90	2.10	



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _(BR) CEO	Collector-Emitter Breakdown Voltage	I _C =100mA; I _B = 0	800			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E =400mA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =7.2A; I _B = 1.8A			3	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =7.2A; I _B = 1.8A			1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 1500V; I _E = 0			100	μА
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	3		11	
h _{FE-2}	DC Current Gain	I _C = 8A; V _{CE} = 5V	4		7	



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