

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

2SC5297

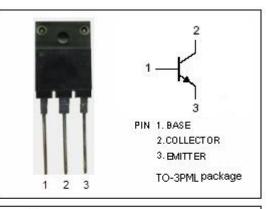
DESCRIPTION

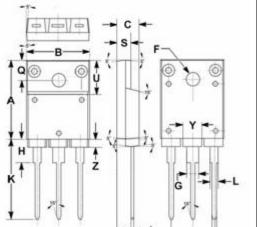
- · High Breakdown Voltage-
 - : V_{(BR)CBO}= 1500V(Min)
- High Switching Speed
- High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Ultrahigh-definition CRT display horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
SYMBOL	PARAMETER	VALUE				
V _{CBO}	Collector-Base Voltage	1500	V			
Vceo	Collector-Emitter Voltage 800		V			
V _{EBO}	Emitter-Base Voltage 6		V			
Ιc	Collector Current-Continuous	ntinuous 8				
ICP	Collector Current-Peak	or Current-Peak 16				
Pc	Collector Power Dissipation @ $T_a=25^{\circ}C$	3.0	W			
	Collector Power Dissipation @ $T_c=25^{\circ}C$	60				
TJ	Junction Temperature	150 °C				
T _{stg}	Storage Temperature Range	-55~150	°C			





R

	mm	
DIM	MIN	MAX
Α	19.90	20.10
В	15.75	16.10
С	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
Н	5.90	6.10
J	0.595	0.70
K	21.10	22.50
L	1.90	2.25
N	10.80	11.00
0	4.90	5.10
R	3.75	3.95
S	3.20	3.60
U	9.90	10.10
Y	4.20	4.90
Z	1.90	2.10

isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA; I _B = 0	800			V
$V_{\text{CE}(\text{sat})}$	Collector-Emitter Saturation Voltage	I _C = 5Α; I _B = 1.25Α			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1.25A			1.5	V
I _{СВО}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μA
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V ; R _{BE} = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V ; I _C = 0			1.0	mA
h _{FE-1}	DC current gain	I _C = 1A ; V _{CE} = 5V	20		30	
h _{FE-2}	DC current gain	I _C = 5A ; V _{CE} = 5V	4		7	

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