

isc Silicon NPN Power Transistor

ISC1205

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DESCRIPTION

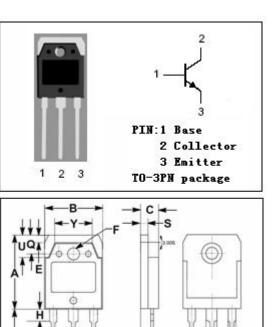
- · High Breakdown Voltage-
- : V_{(BR)CBO}= 1500V(Min)
- High Switching Speed
- High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Ultrahigh-definition CRT display horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{сво}	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	15	A	
I _{CP}	Collector Current-Peak	25	A	
Pc	Collector Power Dissipation @ T_c =25 °C	150	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	Ĉ	



-Y	m	m
DIM	MIN	MAX
Α	19.60	20.10
	15.50	15.70
B C D E	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
	3.20	3.40
H J	0.595	0.605
K	20.00	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.10
Y	9.90	10.10

isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA; I _B = 0	800			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 2A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 2A			1.5	V
I _{СВО}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V ; I _C = 0			0.1	mA
h _{FE-1}	DC current gain	I _C = 1A ; V _{CE} = 5V	20		30	
h _{FE-2}	DC current gain	I _C = 8A ; V _{CE} = 5V	4		8	

Switching times

		_		 		
t _{stg}	Storage Time		I _C = 6A , I _{B1} = 1.2A; I _{B2} = -2.4A R _L = 50 Ω ; V _{CC} = 200V		3.0	μ S
t _f	Fall Time				0.2	μ S

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