

isc Silicon NPN Power Transistor

TIP35

DESCRIPTION

- · DC Current Gain-
- : h_{FE}= 25(Min)@I_C = 1.5A
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 40V(Min)
- Complement to Type TIP36
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

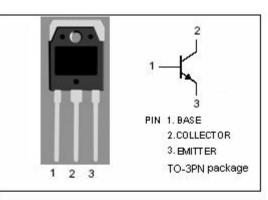
• Designed for use in general purpose power amplifier and switching applications.

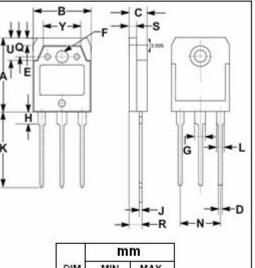
ABSOLUTE MAXIMUM RATINGS (Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	40	V				
V _{CEO}	Collector-Emitter Voltage	40	V				
VEBO	Emitter-Base Voltage	5	V				
Ic	Collector Current -Continuous	25	А				
I _{CM}	Collector Current-peak	40	А				
IB	Base Current	5	А				
Pc	Collector Power Dissipation@ T _c =25°C	125	W				
Tj	Junction Temperature 150		°C				
T _{stg}	Storage Temperature	-65~150	°C				

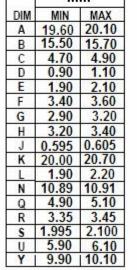
ABSOLUTE MAXIMUM PATINGS (T. =25°C

THERMAL CHARACTERISTICS

SYMBOL PARAMETER		МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.0	°C/W







1



isc Silicon NPN Power Transistor

TIP35

ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA; I _B = 0	40		V
V _{CE(sat)} -1	Collector-Emitter Saturation Voltage	I _C = 15A; I _B = 1.5A		1.8	V
V _{CE} (sat)-2	Collector-Emitter Saturation Voltage	I _C = 25A; I _B = 5A		4.0	V
V _{BE(on)-1}	Base-Emitter On Voltage	I _C = 15A; V _{CE} = 4V		2.0	V
V _{BE(on)-2}	Base-Emitter On Voltage	I _C = 25A; V _{CE} = 4V		4.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 30V; I _B = 0		1.0	mA
ICES	Collector Cutoff Current	V _{CE} = 40V; V _{EB} = 0		0.7	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		1.0	mA
h _{FE-1}	DC Current Gain	Ic= 1.5A; Vce= 4V	25		
h _{FE-2}	DC Current Gain	I _C = 15A; V _{CE} = 4V	15		
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 10V; f _{test} = 1.0MHz	3		MHz

Notice:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

2