

isc Silicon NPN Power Transistor

TIP35AB

DESCRIPTION

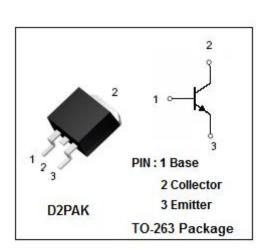
- · DC Current Gain-
 - : h_{FE}= 25(Min)@I_C = 1.5A
- · Collector-Emitter Sustaining Voltage-
- : V_{CEO(SUS)}= 60V(Min)
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

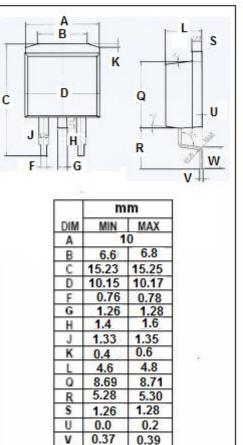
APPLICATIONS

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

SYMBOL VALUE UNIT PARAMETER 60 Collector-Base Voltage V Vсво 60 Collector-Emitter Voltage V V_{CEO} V_{EBO} Emitter-Base Voltage 5 V Collector Current -Continuous 25 lc А Collector Current-peak 40 А Ісм I_B **Base Current** 5 А Collector Power Dissipation@ Tc=25°C Pc 100 W °C Ti **Junction Temperature** 150 °C -65~150 Tstg Storage Temperature

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)





THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	1.25	°C/W	

1

W

2.80

2.82



isc Silicon NPN Power Transistor

TIP35AB

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	60		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	Ic= 15A; Vce= 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} = 60V; 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; Vc== 4V	25		
h _{FE-2}	DC Current Gain	I _C = 15A; V _{CE} = 4V	15		

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