

isc Silicon NPN Power Transistors

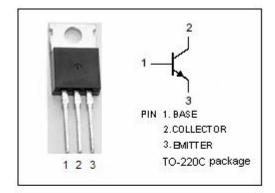
TIP41B

DESCRIPTION

- DC Current Gain -h_{FE} = 30(Min)@ I_C= 0.3A
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)} = 80V(Min)
- Complement to Type TIP42B
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Designed for use in general purpose amplifer and switching applications

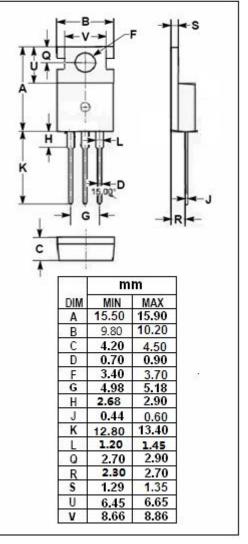


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	80	V	
V _{CEO}	Collector-Emitter Voltage	80	V	
V _{EBO}	Emitter-Base Voltage 5		V	
Ic	Collector Current-Continuous		Α	
Ісм	Collector Current-Peak		А	
I _B	Base Current	2	А	
Pc	Collector Power Dissipation T_c =25°C	65	W	
	Collector Power Dissipation T _a =25℃	2		
T _j	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	

THERMAL CHARACTERISTICS

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



isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT			
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA; I _B = 0	80		V			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 0.6A		1.5	V			
V _{BE} (on)	Base-Emitter On Voltage	I _C = 6A; V _{CE} = 4V		2.0	V			
І _{СВО}	Collector Cutoff Current	V _{CB} = 80V; I _E = 0		0.4	mA			
I _{CEO}	Collector Cutoff Current	V _{CE} = 60V; I _B = 0		0.7	mA			
ІЕВО	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		1.0	mA			
h _{FE-1}	DC Current Gain	I _C = 0.3A ; V _{CE} = 4V	30					
h _{FE-2}	DC Current Gain	I _C = 3A ; V _{CE} = 4V	15	75				
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V	3		MHz			
Switching Time								
t _{on}	Turn-On Time	I_{C} = 6A; I_{B1} = - I_{B2} = 0.6A; $V_{BE(off)}$ = 4V, R_{L} = 5 Ω		0.6	μ S			
t _{off}	Turn-Off Time			1.0	μs			



Fast Recovery Rectifier

MUR1520



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