

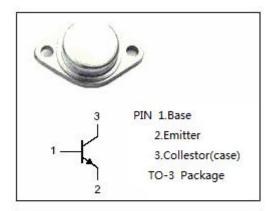
ISC Silicon NPN Power Transistors

DESCRIPTION

- Collector-Emitter Sustaining Voltage-:V_{CEO(SUS)} = 300V(Min.)
- Collector Current- I_C= 3A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for use in regulator, inverter, switching mode power supply.

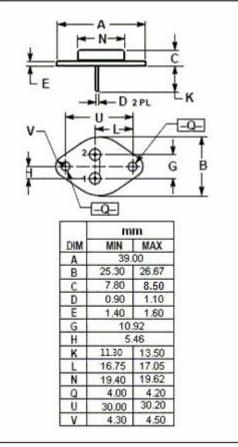


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CES}	Collector-Emitter Voltage	750	V	
V _{CEO}	Collector-Emitter Voltage	300	V	
V _{EBO}	Emitter-Base Voltage	6	V	
l _c	Collector Current-Continuous	3	А	
Ісм	Collector Current-Peak	6	Α	
I _B	Base Current-Continuous	2	А	
Pc	Collector Power Dissipation @T _C = 25℃	40	W	
T _j	Junction Temperature 125		$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~125	$^{\circ}\!$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.5	°C/W



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ISC Silicon NPN Power Transistors

BU126

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	300			V
V _{(BR)EBO}	Collector-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	Ic= 2.5A; I _B = 0.25A			10	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 1A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 1A			1.5	V
Ices	Collector Cutoff Current	V _{CE} = 750V; V _{BE} = 0 V _{CE} = 750V; V _{BE} = 0; Ta= 125°C			0.5 2.0	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 15V	15			
f _T	Current-Gain—Bandwidth Product	I _C = 0.2A; V _{CE} = 10V		10		MHz
t _f	Fall Time	I _C = 2.5A; I _B = 0.25A		0.2		μS

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