

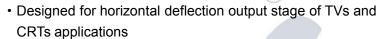


ISC Silicon NPN Power Transistor

DESCRIPTION

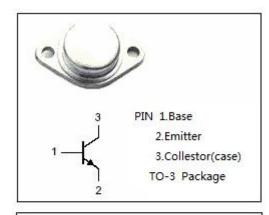
- · Excellent Safe Operating Area
- · Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)}$ = 1.0 V(Max)@ I_C = 5A
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 150 V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

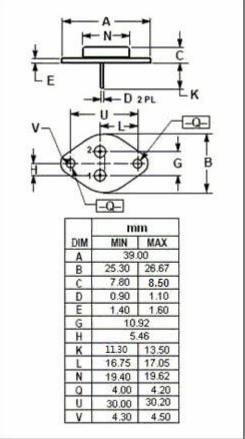
APPLICATIONS



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	250	V
VCEO	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	8	V
Ic	Collector Current-Continuous	5	Α
Ісм	Collector Current-Peak	8	Α
lв	Base Current	2	Α
Pc	Collector Power Dissipation@T _C =25℃	67	W
T _J	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	$^{\circ}$







isc Silicon NPN Power Transistor

BU122

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ; I _B = 0	150		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A		1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A		1.2	V
Ісво	Collector Base Cutoff Current	V _{CB} =250V; I _E = 0		1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0		1.0	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	25	250	
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	5		
f _⊤	Current Gain-Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V	10		MHz

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