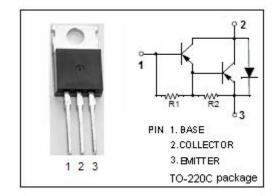


isc Silicon PNP Darlington Power Transistor

DESCRIPTION

- · High DC Current Gain-
- : h_{FE} = 1000(Min)@ I_C= -1A
- · Collector-Emitter Sustaining Voltage-
- : $V_{CEO(SUS)} = -60V(Min)$
- · Low Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)} = -2.5V(Max)@I_{C} = -2A$
- Complement to Type TIP110
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

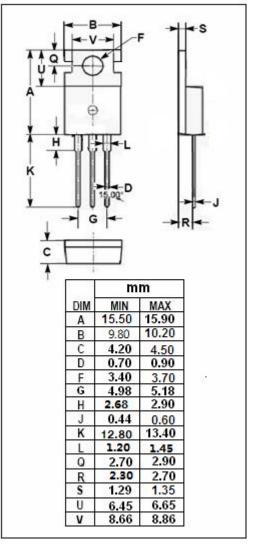
 Designed for general purpose amplifier and low speed switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-60	V	
V _{CEO}	Collector-Emitter Voltage	-60	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-2	Α	
Ісм	Collector Current-Peak	-4	Α	
I _B	Base Current	-50	mA	
Pc	Collector Power Dissipation T _C =25℃	50		
	Collector Power Dissipation T _a =25°C	2 W		
T _j	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case 2.5		°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	62.5	°C/W





isc Silicon PNP Darlington Power Transistor

TIP115

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -30mA, I _B = 0	-60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A, I _B = -8mA			-2.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -2A; V _{CE} = -4V			-2.8	V
Ісво	Collector Cutoff Current	V _{CB} = -60V, I _E = 0			-1.0	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -30V, I _B = 0			-2.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-2.0	mA
h _{FE-1}	DC Current Gain	Ic= -1A; VcE= -4V	1000			
h _{FE-2}	DC Current Gain	I _C = -2A; V _{CE} = -4V	500			
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V, f= 0.1MHz			200	pF

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