

isc Silicon PNP Darlington Power Transistor

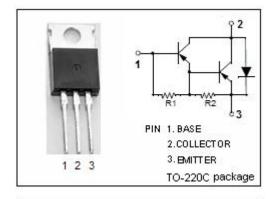
KT0718

DESCRIPTION

- · High DC Current Gain-
 - : h_{FE} = 2500-4500@ I_C= -3A
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)} = -100V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for general-purpose amplifier and low-speed switching applications

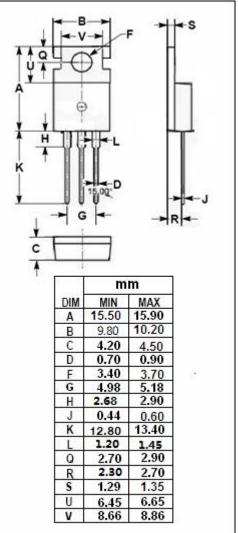


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	٧
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-8	Α
I _{CM}	Collector Current-Peak	-12	Α
I _B	Base Current- Continuous	-0.3	Α
Pc	Collector Power Dissipation @T _C =25℃	70	
	Collector Power Dissipation @T _a =25℃	2	W
Tj	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	1.785	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	63.5	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -30mA, I _B = 0	-100		V
VCE(sat)-1	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -16mA		-2.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -6A, I _B = -30mA		-3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -4A; V _{CE} = -4V		-2.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V, I _E = 0		-0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -50V, I _B = 0		-0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-5	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -4V	500		
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -3V	2500	4500	

NOTICE:

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