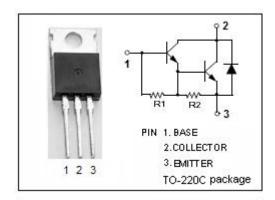


isc Silicon NPN Darlington Power Transistor

2SD1532

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 120V(Min)
- High DC Current Gain
- : h_{FE}= 1000(Min) @ I_C= 2A, V_{CE}= 4V
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

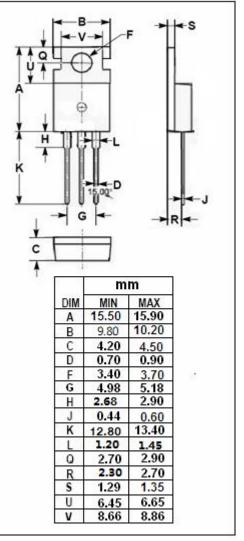


APPLICATIONS

 Designed for general purpose amplifier and low speed switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	120	V	
Vceo	Collector-Emitter Voltage	120	V	
V_{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	4	А	
Ісм	Collector Current-Peak	8	А	
lΒ	Base Current	120	mA	
Pc	Collector Power Dissipation T _C =25℃	30	W	
Tj	Junction Temperature	unction Temperature 150		
T _{stg}	Storage Temperature Range -65~150		$^{\circ}$	





isc Silicon NPN Darlington Power Transistor

2SD1532

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	120			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 2mA ,I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 3A ,I _B = 12mA			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 3.0A ; V _{CE} = 3V			2.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 120V, I _E = 0			0.1	mA
Iceo	Collector Cutoff Current	V _{CE} = 120V, I _B = 0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			2	mA
h _{FE-1}	DC Current Gain	Ic= 0.5A ; V _{CE} = 4V	1000			
h _{FE-2}	DC Current Gain	I _C = 2A; V _{CE} = 4V	1000			

NOTICE:

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