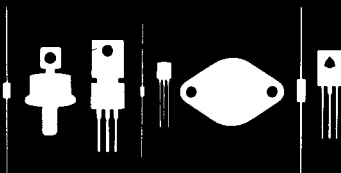


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SE9303 SE9304 SE9305 NPN
SE9403 SE9404 SE9405 PNP

SILICON POWER DARLINGTON
COMPLEMENTARY TRANSISTORS

JEDEC TO-3 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR SE9303, SE9403 Series Types are Complementary Silicon Power Darlingtons designed for audio amplifier and power linear and switching applications.

MAXIMUM RATINGS (T_C=25°C)

	SYMBOL	SE9303 SE9403	SE9304 SE9404	SE9305 SE9405	UNIT
Collector-Base Voltage	V _{CB0}	60	80	100	V
Collector-Emitter Voltage	V _{CE0}	60	80	100	V
Emitter-Base Voltage	V _{EB0}	5.0	5.0	5.0	V
Collector Current	I _C	10	10	10	A
Power Dissipation	P _D	100	100	100	W
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 TO +200			°C

ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	TEST CONDITIONS	SE9303 SE9403		SE9304 SE9404		SE9305 SE9405		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
I _{CBO}	V _{CE} =Rated V _{CE0}		200		200		200	μA
I _{CEO}	V _{CE} =½ Rated V _{CE0}		500		500		500	μA
I _{EBO}	V _{EB} =5.0V		4.0		4.0		4.0	mA
BV _{CE0}	I _C =100mA	60		80		100		V
V _{CE(SAT)}	I _C =4.0A, I _B =16mA		2.0		2.0		2.0	V
V _{CE(SAT)}	I _C =7.5A, I _B =150mA		2.5		2.5		2.5	V
V _{BE(ON)}	V _{CE} =3.0V, I _C =4.0A		2.5		2.5		2.5	V
V _{BE(ON)}	V _{CE} =3.0V, I _C =7.5A		3.0		3.0		3.0	V
h _{FE}	V _{CE} =3.0V, I _C =1.0A	750		750		750		-
h _{FE}	V _{CE} =3.0V, I _C =4.0A	1000		1000		1000		-
h _{FE}	V _{CE} =3.0V, I _C =7.5A	100		100		100		-
f _T	V _{CE} =3.0V, I _C =4.0A, f=1.0MHz	1.0		1.0		1.0		MHz

