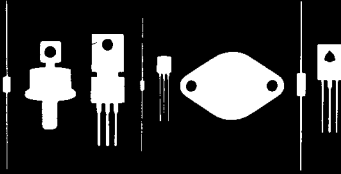


Central  
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SE9303 SE9304 SE9305 NPN  
SE9403 SE9404 SE9405 PNP

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 ( $T_C=25^{\circ}C$ )

	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	PD	100	100	100	W
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 TO +200			$^{\circ}C$

ELECTRICAL CHARACTERISTICS ( $T_C=25^{\circ}C$ )

SYMBOL	TEST CONDITIONS	SE9303 SE9403		SE9304 SE9404		SE9305 SE9405		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
$I_{CBO}$	$V_{CE}=\text{Rated } V_{CE0}$		200		200		200	$\mu A$
$I_{CEO}$	$V_{CE}=\frac{1}{2} \text{ Rated } V_{CE0}$		500		500		500	$\mu A$
$I_{EBO}$	$V_{EB}=5.0V$		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

