

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

TIP35, A, B, C NPN
TIP36, A, B, C PNP

COMPLEMENTARY SILICON
POWER TRANSISTORS

T0-3P CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR TIP35, TIP36 Series types are Complementary Silicon Power Transistors manufactured by the Epitaxial-Base Process designed for high current amplifier and switching applications.

MAXIMUM RATINGS (T_C=25°C unless otherwise noted)

	SYMBOL	TIP35 TIP36	TIP35A TIP36A	TIP35B TIP36B	TIP35C TIP36C	UNIT
Collector-Base Voltage	V _{CBO}	40	60	80	100	V
Collector-Emitter Voltage	V _{CEO}	40	60	80	100	V
Emitter-Base Voltage	V _{EBO}		5.0			A
Collector Current	I _C		25			A
Collector Current (Peak)	I _{CM}		40			A
Base Current	I _B		5.0			A
Power Dissipation	P _D		125			W
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 TO +150			°C
Thermal Resistance	θ _{JC}		1.0			°C/W

ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	TIP35 TIP36		TIP35A TIP36A		TIP35B TIP36B		TIP35C TIP36C		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
I _{CEO}	V _{CE} =30V		1.0		1.0		-		-	mA
I _{CEO}	V _{CE} =60V		-		-		1.0		1.0	mA
I _{CES}	V _{CE} =Rated V _{CEO}		0.7		0.7		0.7		0.7	mA
I _{EBO}	V _{EB} =5.0V		1.0		1.0		1.0		1.0	mA
BV _{CEO}	I _C =30mA	40		60		80		100		V
V _{CE(SAT)}	I _C =15A, I _B =1.5A		1.8		1.8		1.8		1.8	V
V _{CE(SAT)}	I _C =25A, I _B =5.0A		4.0		4.0		4.0		4.0	V
V _{BE(ON)}	V _{CE} =4.0V, I _C =15A		2.0		2.0		2.0		2.0	V
V _{BE(ON)}	V _{CE} =4.0V, I _C =25A		4.0		4.0		4.0		4.0	V
h _{FE}	V _{CE} =4.0V, I _C =1.5A	25		25		25		25		
h _{FE}	V _{CE} =4.0V, I _C =15A	10	50	10	50	10	50	10	50	
h _{fe}	V _{CE} =10V, I _C =1.0A, f=1.0kHz	25		25		25		25		
f _T	V _{CE} =10V, I _C =1.0A, f=1.0MHz	300		300		300		300		MHz