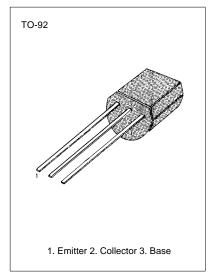
SWITCHING AND AMPLIFIER APPLICATIONS

• Complement to BC635/637/639

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

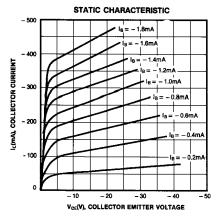
Characteristic	Symbol	Rating	Unit	
Collector Emitter Voltage	: BC636	V _{CER}	-45	V
at R _{BE} =1Kohm	: BC638		-60	V
Collector Emitter Voltage	: BC640 : BC636	V	-100 -45	V
Collector Efficier voltage	: BC638	V _{CES}	-60	v
	: BC640		-100	v
Collector Emitter Voltage	: BC636	V_{CEO}	-45	V
	: BC638		-60	V
	: BC640		-80	V
Emitter Base Voltage		V_{EBO}	-5	V
Collector Current		Ic	-1	Α
Peak Collector Current		I _{CP}	-1.5	Α
Base Current		I _B	-100	mA
Collector Dissipation		Pc	1	W
Junction Temperature		TJ	150	°C
Storage Temperature		T _{STG}	-65 ~ 150	°C

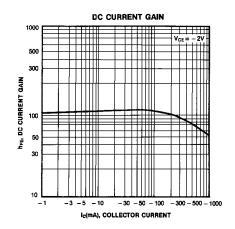


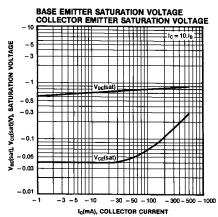
ELECTRICAL CHARACTERISTICS (T_A=25°C)

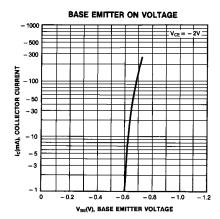
Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C = -10mA, I _B =0				V
: BC636			-45			V V
: BC638			-60			V V
: BC640			-80			^
Collector Cut-off Current	I _{CBO}	$V_{CB} = -30V, I_{E} = 0$			-0.1	μΑ
Emitter Cut-off Current	I _{EBO}	V_{EB} = -5V, I_{C} =0			-0.1	μΑ
DC Current Gain	h _{FE}	V_{CE} = -2V, I_{C} = -5mA	25			
: BC635		V_{CE} = -2V, I_{C} = -150mA	40		250	
: BC637/BC639			40		160	
		$V_{CF} = -2V$, $I_{C} = -500$ mA	25			
Collector Emitter Saturation Voltage	V _{CE} (sat)	I _C = -500mA, I _B = -50mA			-0.5	V
Base Emitter On Voltage	V _{BF} (on)	V _{CF} = -2V, I _C = -500mA			-1	V
Current Gain Bandwidth Product	f _T	$V_{CE} = -5V$, $I_{C} = -10$ mA, $f = 50$ MHz		100	-1	MHz

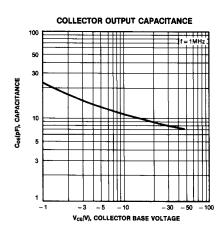














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