

BC807-16W BC807-25W BC807-40W

Silicon PNP Transistor

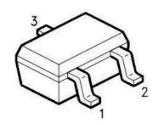
Small and medium-sized power amplifier, medium power drive and switching applications

1: base 2: emitter 3: collector

HFE(1): Classification

Rank	BC807-16W	BC807-25W	BC807-40W	
Range	100-250	160-400	250-600	
Marking	5A	5B	5C	





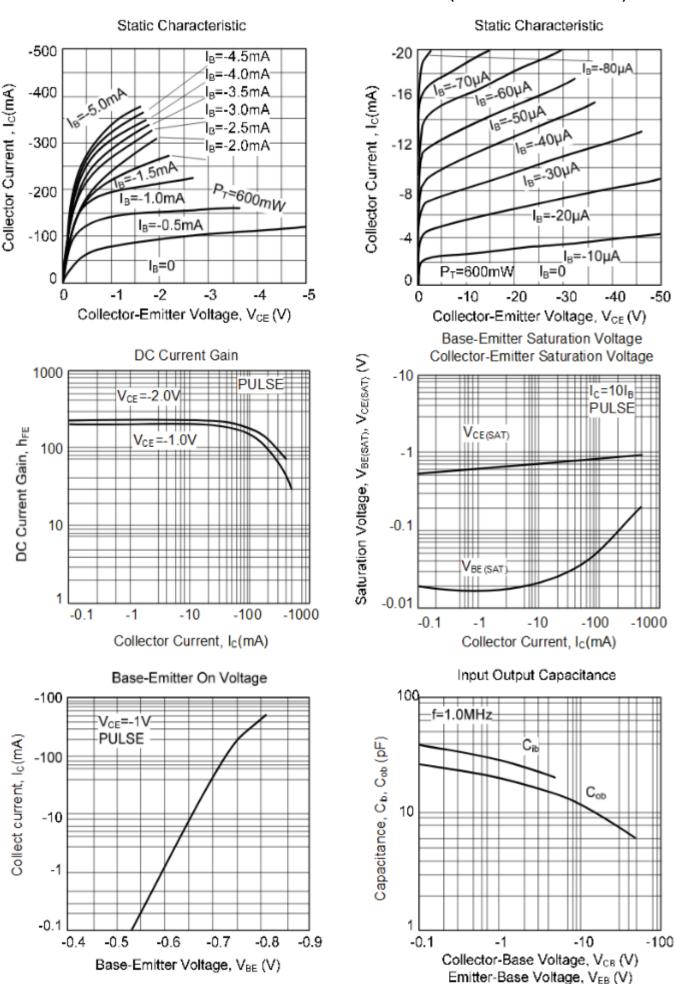
Maximum ratings(Ta=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit				
Collector-Base Breakdown Voltage	Vсво	-50	V				
Collector-Emitter Breakdown Voltage	VCEO	-45	V				
Emitter-Base Breakdown Voltage	VEBO	-5	V				
Collector Current	Ic	-500	mA				
Collector Power Dissipation	Pc	300	mW				
Junction Temperature	TJ	150	$^{\circ}\!\mathbb{C}$				
Storage Temperature	Tstg	-65∼150	$^{\circ}$				

Electrical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol Test Condition		Min	Max	Unit
Collector-Base Breakdown Voltage	Vсво	Ie=-10uA Ie=0	-50		V
Collector-Emitter Breakdown Voltage	VCEO	Ic=-10mA IB=0	-45		V
Emitter-Base Breakdown Voltage	VEBO	IE=-10uA IC=0	-5		V
Collector Cutoff Current	Ісво	Vcb=-45V IE=0		-0.1	uA
Collector-Emitter Current	ICES	VCE=-25V IB=0		-0.1	uA
Emitter Cutoff Current	ІЕВО	VEB=-4V IC=0		-0.1	uA
DC Current Gain	HFE (1)	Vce=-1V Ic=-100mA	100	600	
	HFE (2)	Vce=-1V Ic=-500mA	40		
Collector-Emitter Saturation Voltage	VCE(sat)	Ic=-500mA IB=-50mA	·	-0.7	V
Collector-Base Saturation Voltage	VBE(sat)	_I c=-500mA IB=-50mA		-1.2	V
transition frequency	fτ	VCE=-5V IC=-10mA f=100MHz	100		MHz

RATING AND CHARACTERISTICS CURVES (BC807-16W/25W/40W)



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

