

Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-45	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current (DC)	Ι _C	-500	mA
Collector Current (Pulse)	I _{CP}	-1000	mA
Total Power Dissipation	Ρτοτ	300	mW
Operating Junction and Storage Temperature Range	T_{J},T_{STG}	-55~150	°C
Thermal Resistance from Junction to Ambient (Note)	$R_{ extsf{ heta}JA}$	420	°C/W

Note: Mounted on minimum pad mount on FR-4 board.



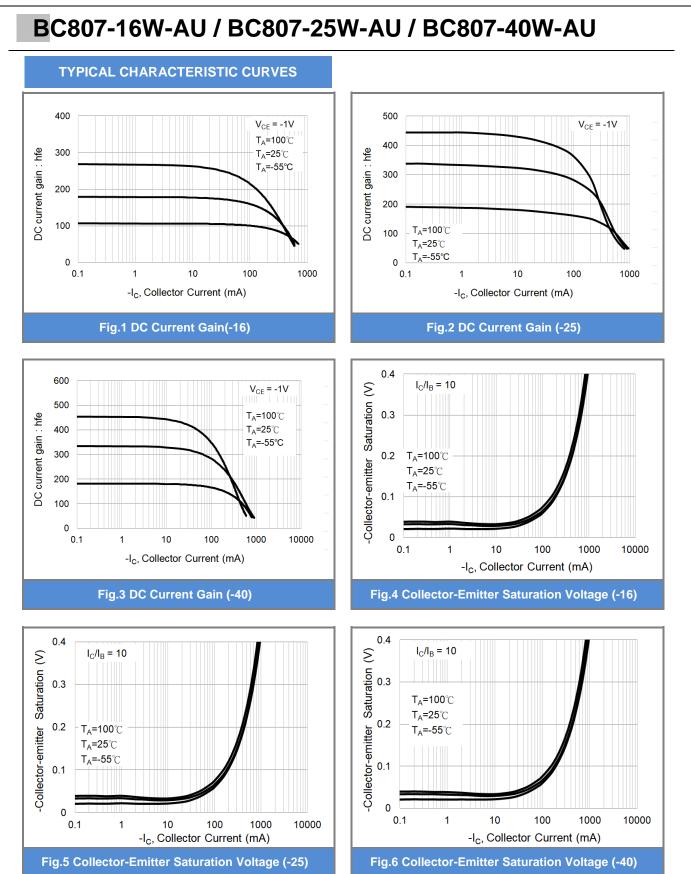
BC807-16W-AU / BC807-25W-AU / BC807-40W-AU

Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

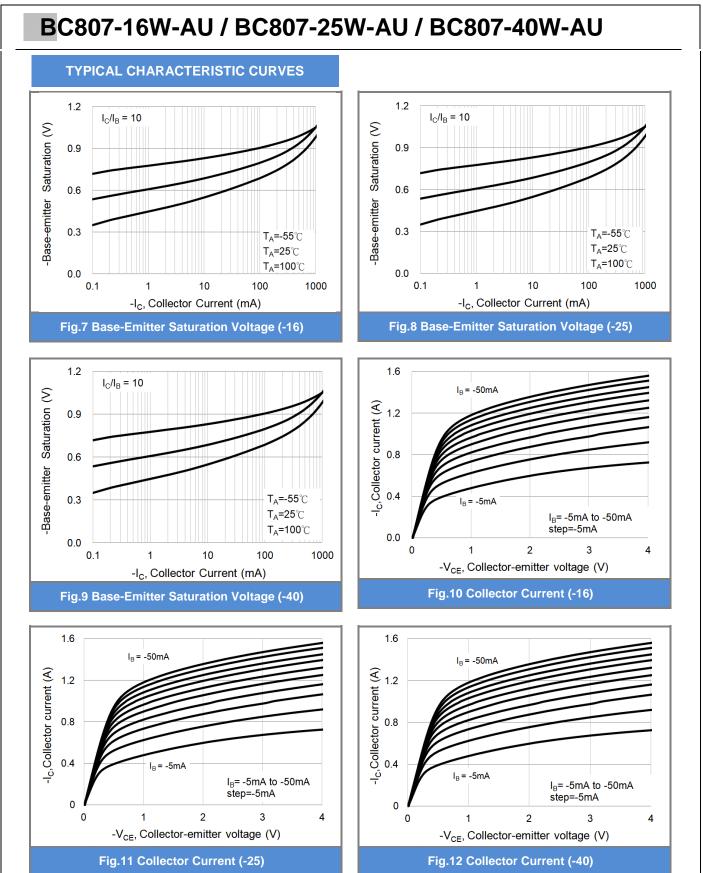
PARA	METER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
OFF Characteristics							
Collector-Emitter Breakdown Voltage		BV _{CEO}	I _C = -10mA, I _B = 0A	-45	-	-	V
Collector-Base Breakdown Voltage		BV _{CBO}	I _C = -10uA, I _E = 0A	-50	-	-	V
Emitter-Base Breakdown Voltage		BV _{EBO}	I _E = -1uA, I _C = 0A	-5	-	-	V
Collector-Base Cutoff Current		I _{CBO}	V _{CB} = -20V, I _E = 0A	-	-	-100	nA
Collector-Base Cut	off Current	I _{CBO}	Tj=125 [°] C	-	-	-5	uA
Emitter-Base Cutoff Current		I _{EBO}	V _{EB} = -5V	-	-	-100	nA
ON characteristic	S	•					
DC Current Gain	BC807-16W-AU	- h _{FE}		100	-	250	
	BC807-25W-AU		V _{CE} = -1V I _C = -100mA	160	-	400	
	BC807-40W-AU			250	-	600	
DC Current Gain		-	V _{CE} = -1V I _C = -500mA	40	-	-	
Collector-Emitter Saturation Voltage		V _{CE(SAT)}	I _C = -500mA, I _B = -50mA	-	-	-0.7	V
Base-Emitter Turn-on voltage V _{BE(o}		V _{BE(on)}	I _C = -500mA, V _{CE} = -1V	-	-	-1.2	V
Transition Frequency		f _T	I _C = -10mA, V _{CE} = -5V	100	-	-	MHz
Collector Output Capacitance		C _{OB}	V _{CB} = -10V, f=1MHz	-	7	-	pF













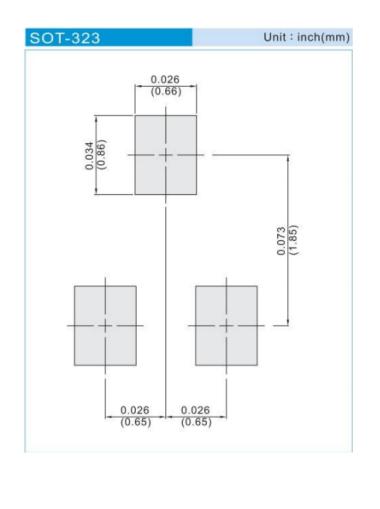


BC807-16W-AU / BC807-25W-AU / BC807-40W-AU

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
BC807-16W-AU_R1_000A1	SOT-323	3K pcs / 7" reel	7S	Halogen free
BC807-25W-AU_R1_000A1	SOT-323	3K pcs / 7" reel	7V	Halogen free
BC807-40W-AU_R1_000A1	SOT-323	3K pcs / 7" reel	7W	Halogen free

MOUNTING PAD LAYOUT







BC807-16W-AU / BC807-25W-AU / BC807-40W-AU

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