Ρ	B224	4350	ISA

CONDUCTOR

NPN Low Vce(sat) Transistor Voltage 50V Current

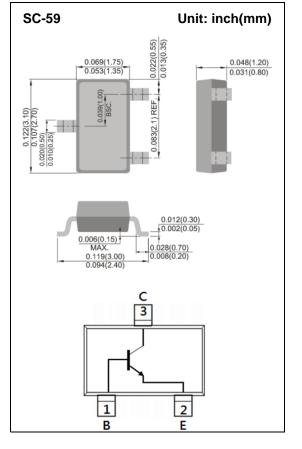
Features

PAN

- Silicon NPN epitaxial type
- Low Vce(sat) 0.37V(max)@lc/lb= 3A/300mA
- High collector current capability
- Excellent DC current gain characteristics
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: SC-59 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0005 ounces, 0.0145 grams



Maximum Ratings and Thermal Characteristics (T_A=25°C unless otherwise noted)

3A

PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current (DC)	Ι _c	3	А
Collector Current (Pulse)	I _{CP}	5	А
Collector Power Dissipation	P _D	1.25	W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55~150	°C
Typical Thermal Resistance from Junction to Ambient (Note)	$R_{ extsf{ heta}JA}$	100	°C/W

Note: Mounted on FR4 PCB at 1 inch square copper pad.



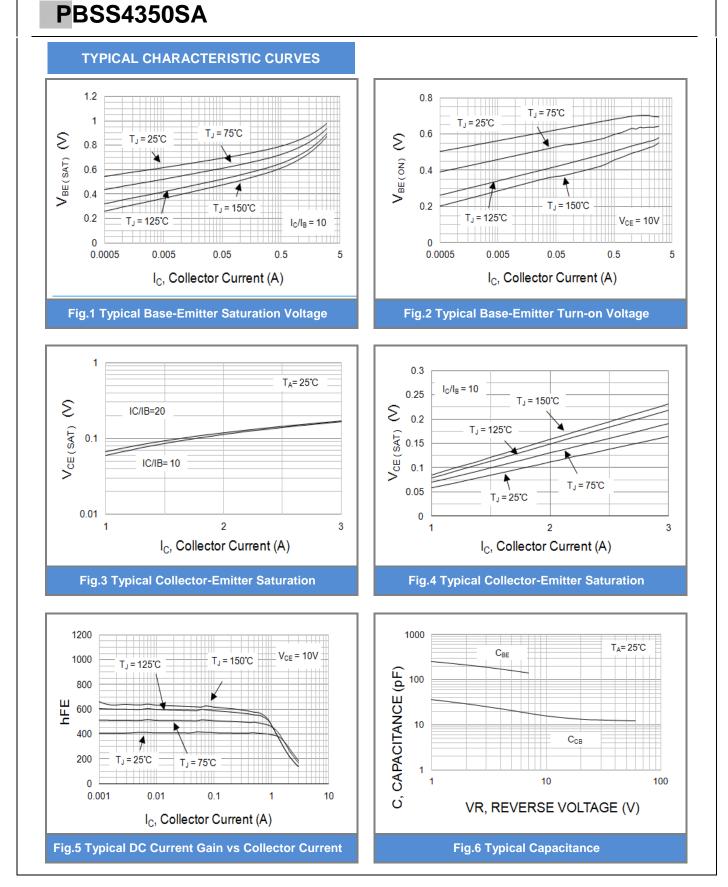


PBSS4350SA

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
OFF Characteristics					•	
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C = 10mA, I _B = 0A	50	-	-	V
Collector-Base Breakdown Voltage	BV _{CBO}	I _C = 0.1mA, I _E = 0A	50	-	-	V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E = 0.1mA, I _C = 0A	5	-	-	V
Collector-Base Cutoff Current	I _{CBO}	V_{CB} = 50V, I _E = 0A	-	-	100	nA
Emitter-Base Cutoff Current	I _{EBO}	V _{EB} = 5V	-	-	100	nA
Collector-Emitter Cutoff Current	I _{CES}	V _{CES} = 50V	-	-	100	nA
ON characteristics				•	•	
	h _{FE}	V_{CE} = 2V I _C = 100mA	300	-	-	
		V_{CE} = 2V I _C = 500mA	300	-	-	
DC Current Gain		V_{CE} = 2V I _C = 1A	300	-	700	
		V_{CE} = 2V I _C = 2A	200	-	-	
		V_{CE} = 2V I _C = 3A	100	-	-	
	V _{CE(SAT)}	I _C = 500mA, I _B = 50mA	-	-	80	mV
		I _C = 1A, I _B = 50mA	-	-	160	
Collector-Emitter Saturation Voltage		I _C = 2A, I _B = 100mA	-	-	280	
		I _C = 2A, I _B = 200mA	-	-	260	
		I _C = 3A, I _B = 300mA	-	-	370	
	$V_{\text{BE(SAT)}}$	I _C = 2A, I _B = 100mA	-	-	1.1	V
Base-Emitter Saturation voltage		I _C = 3A, I _B = 300mA	-	-	1.2	
Base-Emitter Turn-on voltage	$V_{\text{BE(on)}}$	$I_C= 1A, V_{CE}= 2V$	-	-	1.1	V
	f _T	I _C = -100mA, V _{CE} = 5V	100	-	-	MHz
Transition Frequency		f=100MHz				
Collector Output Capacitance	Сов	V _{CB} = 10V I _E = 0A, f=1MHz	-	-	25	pF

August 28,2017-REV.00







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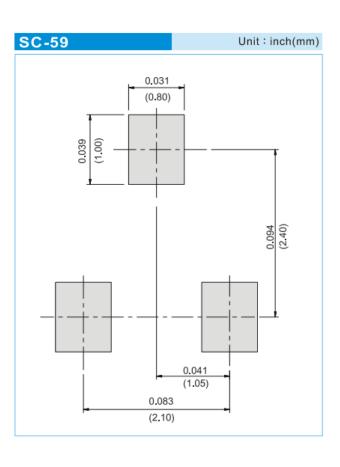


PBSS4350SA

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PBSS4350SA_R1_00001	SC-59	3K pcs / 7" reel	C95	Halogen free

MOUNTING PAD LAYOUT





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PBSS4350SA

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