

No.1853A

PNP Epitaxial Planar Silicon Transistor High hFE, Low-Frequency General-Purpose Amp Applications

## **Applications**

. Low frequency general-purpose amplifiers, drivers, muting circuits

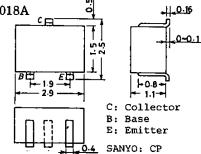
- . Very small-sized package permitting 2SA1434-used sets to be made smaller, slimmer.
- . Adoption of FBET process
- . High DC current gain ( $h_{\mbox{\scriptsize FE}}$ =500 to 1200)
- . Low collector-to-emitter saturation voltage ( $V_{CE(sat)} \le 0.5V$ ). High  $V_{EBO} = 15V$ )

Absolute Maximum Ratings at Ta=25°C			unit
Collector to Base Voltage	$v_{ m CBO}$	-60	V
Collector to Emitter Voltage	V <sub>CEO</sub>	<b>-</b> 50	٧
Emitter to Base Voltage	$v_{EBO}$	-15	V
Collector Current	IC	-100	$\mathbf{m}\mathbf{A}$
Collector Current(Pulse)	$I_{CP}$	-200	mA
Collector Dissipation		200	mW
Junction Temperature	<sup>Р</sup> С Тј	125	°C
Storage Temperature	Tstg	-55 to 125	°C

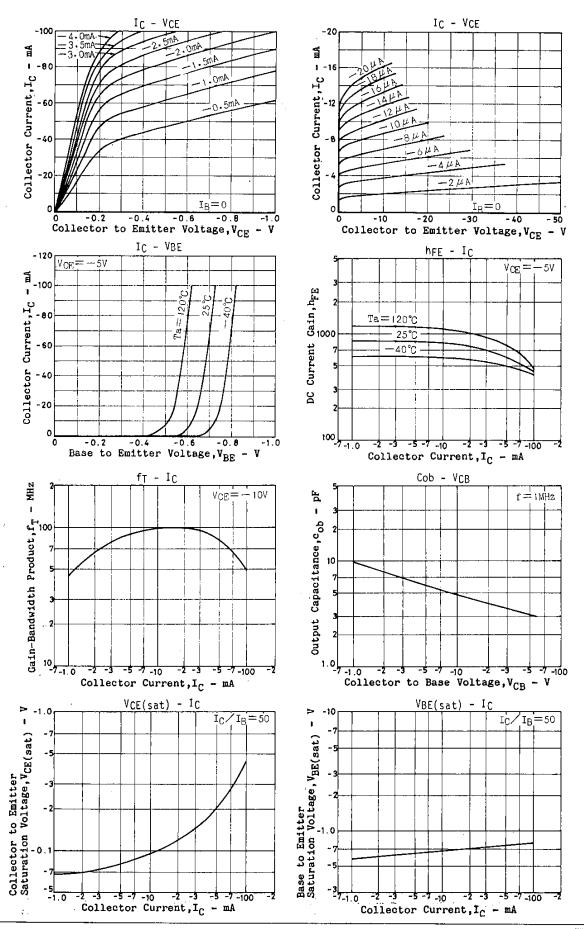
Electrical Characteristics at	Ta=25°C		min	typ m	ax unit
Collector Cutoff Current	I <sub>CBO</sub>	$V_{CB} = -40V, I_E = 0$		-0	.1 µA
Emitter Cutoff Current	I <sub>EBO</sub>	$V_{EB} = -10V, I_C = 0$		-0	.1 µA
DC Current Gain	h <sub>FE</sub>	$V_{CE}^{EB} = -5V$ , $I_{C} = -10mA$	500	800 12	~
Gain-Bandwidth Product	fT	V <sub>CE</sub> =-10V, Ĭ <sub>C</sub> =-10mA	-	100	MHz
Output Capacitance	cob	$V_{CB} = -10V, f = 1MHz$		4.8	рF
Collector to Emitter	VCE(cot)	$I_C = -50 \text{mA}, I_B = -1 \text{mA}$		-0.2 -0	-
Saturation Voltage	CE(Sat)	С - , В		-0.8 -1	
Base to Emitter Saturation	Vpp(eat)	$I_{C}$ =-50mA, $I_{B}$ =-1mA			V
Voltage	DE (Sac)	С			
Collector to Base Breakdown	V(DD)CDO	$I_C = -10\mu A$ , $I_E = 0$	-60		v
Voltage	(BK)CBO	C . A . E			•
Collector to Emitter	V(DD) 600	$I_C = -1mA$ , $R_{BE} = \infty$	-50		v
Breakdown Voltage	(BR)CEO	-C <del></del> BE- ∞	50		•
Emitter to Base Breakdown	V	T10114 T0	<b>-1</b> 5		3.7
T-1+-	'(BR)EBO	$I_E = -10\mu A$ , $I_C = 0$	- 15		V

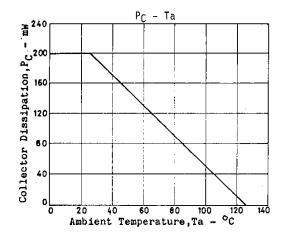
Voltage Marking :FL Package Dimensions 2018A

(unit:mm)



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