Built-in Diode at C-E 2SA1568 Low Vce (sat)



Silicon PNP Epitaxial Planar Transistor (Complement to type 2SC4065)

Application: DC Motor Driver, Chopper Regulator and General Purpose

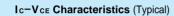
Absolute maximum ratings (Ta=25°C					
Symbol	2SA1568	Unit			
Vсво	-60	V			
VCEO	-60	V			
VEBO	-6	V			
Ic	∓12	А			
lB	-3	А			
Pc	35(Tc=25°C)	W			
Tj	150	°C			
Tstg	-55 to +150	°C			

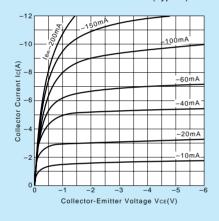
Electrical Cl	naracteristics	(Ta=25°C)		
Symbol	Conditions	2SA1568	Unit	
Ісво	Vcb=-60V	-100max	μΑ	
ГЕВО	VEB=-6V	-60max	mA	
V(BR)CEO	Ic=-25mA	-60min	V	
hfe	Vce=-1V, Ic=-6A	50min		
Vce(sat)	Ic=-6A, IB=-0.3A	-0.35max	V	
VFEC	IECO=-10A	-2.5max	V	
fт	Vce=-12V, Ie=0.5A	40typ	MHz	
Сов	VcB=-10V, f=1MHz	330typ	pF	

External Dimensions FM20 (TO220F) Weight: Approx 2.0g a. Type No. b. Lot No.

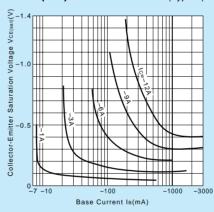
Typical Switching Characteristics (Common Emitter)

Vcc	Rι	Ic	V _{BB1} (V)	VBB2	I _{B1}	I _{B2}	ton	tstg	tf
(V)	(Ω)	(A)		(V)	(mA)	(mA)	(µs)	(µs)	(µs)
-24	4	-6	-10	5	-120	120	0.4typ	0.4typ	0.2typ

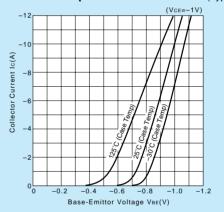




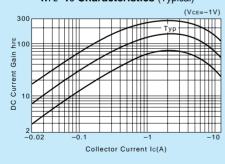
VcE(sat)-IB Characteristics (Typical)



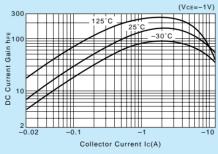
Ic-VBE Temperature Characteristics (Typical)



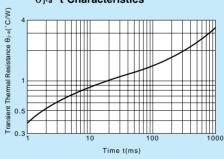
hfe-Ic Characteristics (Typical)



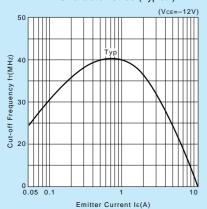
hfe-Ic Temperature Characteristics (Typical)



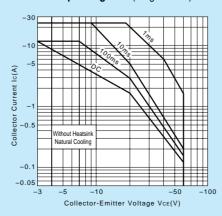
 $\theta_{\text{j-a}}\text{--t Characteristics}$



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

