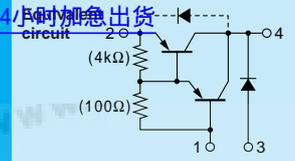


SAH03



Silicon PNP Epitaxial Planar Transistor with Fast-Recovery Rectifier Diode

Application : Voltage change switch for motor

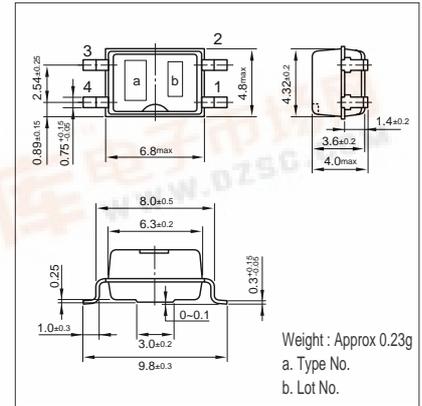
Absolute maximum ratings (Ta=25°C)

Symbol	SAH03	Unit
V _{CB0}	-60	V
V _{CE0}	-60	V
V _{EB0}	-6	V
I _c	-1.2	A
I _B	-0.1	A
P _c	1.0(Ta=25°C)	W
T _J	150	°C
T _{stg}	-40to+150	°C

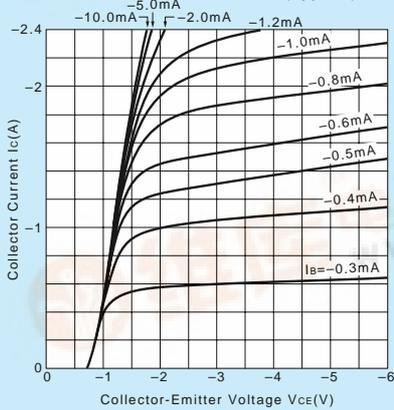
Electrical Characteristics (Ta=25°C)

Symbol	Conditions	SAH03	Unit
I _{CB0}	V _{CB} =-60V	-10max	μA
I _{EB0}	V _{EB} =-6V	-3max	mA
V _{(BR)CEO}	I _c =-10mA	-60min	V
h _{FE}	V _{CE} =-4V, I _c =-1A	2000to12000	
V _{CE(sat)}	I _c =-1A, I _B =-2mA	-1.4max	V
f _r	V _{CE} =-12V, I _E =0.1A	100typ	MHz
C _{OB}	V _{CB} =-10V, f=1MHz	30typ	pF
V _R	I _R =100μA	100 min	V
V _F	I _F =0.5A	1.5 max	V
t _{rr}	I _F =±100mA	100 typ	ns

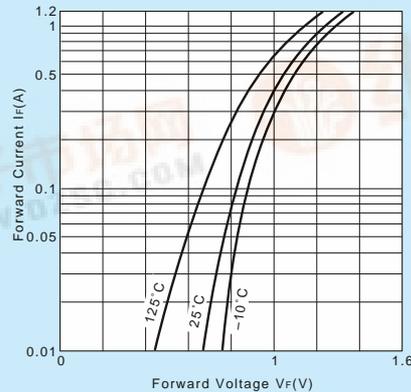
External Dimensions PS Pack



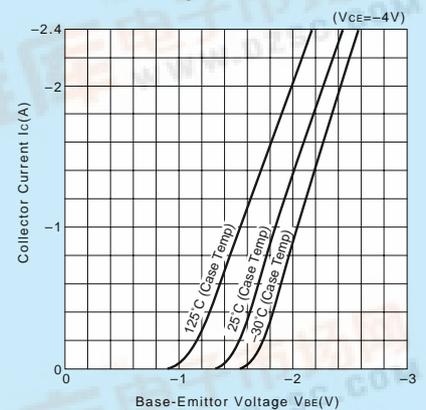
I_c-V_{CE} Characteristics (Typical)



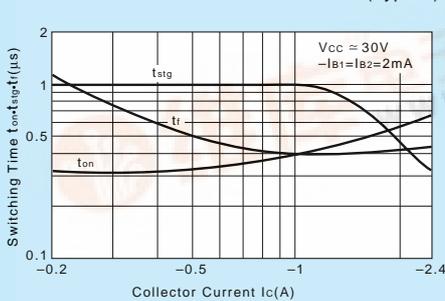
Diode I_F-V_F Characteristics



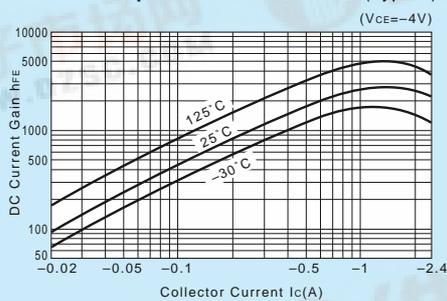
I_c-V_{BE} Temperature Characteristics (Typical)



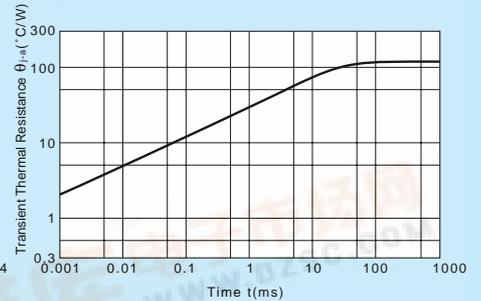
t_{on}•t_{stg}•t_{rr}-I_c Characteristics (Typical)



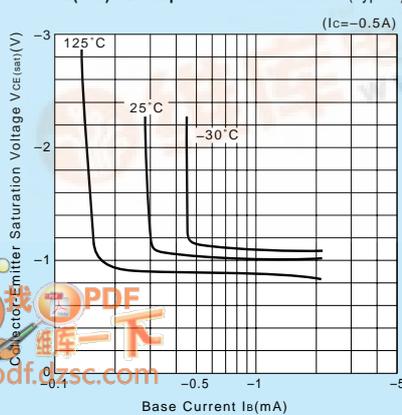
h_{FE}-I_c Temperature Characteristics (Typical)



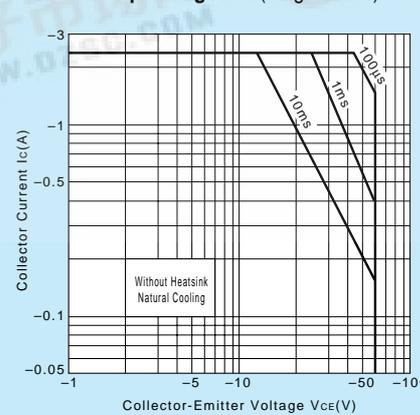
θ_{j-a}-t Characteristics



V_{CE(sat)}-I_B Temperature Characteristics (Typical)



Safe Operating Area (Single Pulse)



P_c-T_a Derating

