


SMA6014

查询SMA6014供应商

PNP + NPN Darlington

更多件, 专业PCB打样工厂, 24小时加急出货

3-phase motor drive

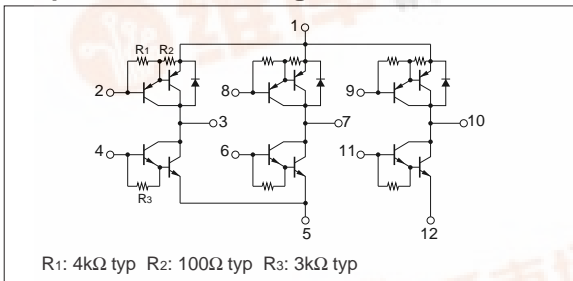
External dimensions  SMA

Absolute maximum ratings

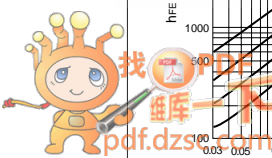
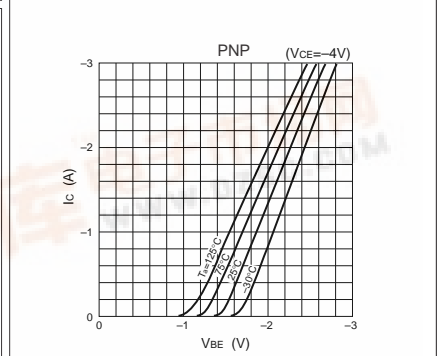
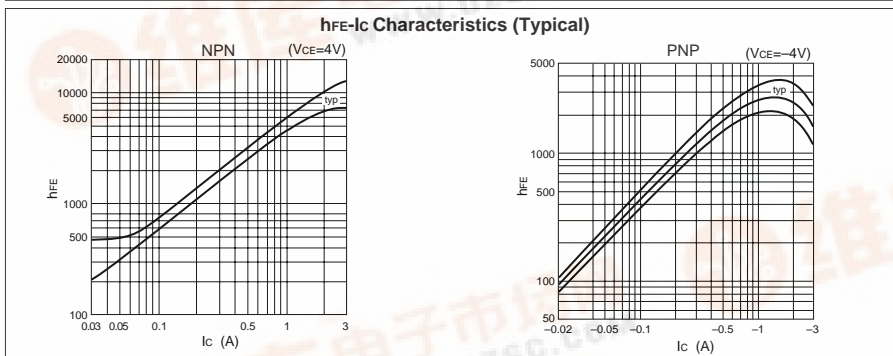
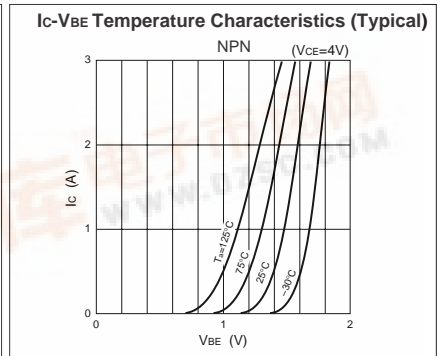
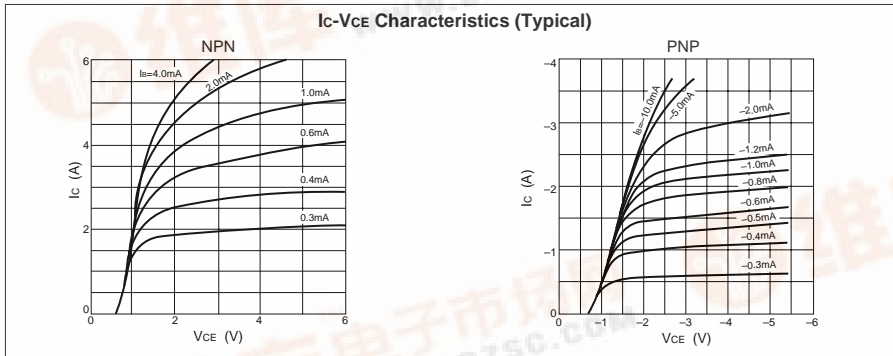
($T_a=25^\circ\text{C}$)

Symbol	Ratings		Unit
	NPN	PNP	
V_{CBO}	60	-60	V
V_{CEO}	60	-60	V
V_{EBO}	6	-6	V
I_c	2	-2	A
I_{CP}	3 ($PW \leq 1\text{ms}$, $D_u \leq 50\%$)	-3 ($PW \leq 1\text{ms}$, $D_u \leq 50\%$)	A
I_B	0.5	-0.5	A
P_T	4 ($T_a=25^\circ\text{C}$)		W
	20 ($T_c=25^\circ\text{C}$)		
T_j	150		$^\circ\text{C}$
T_{stg}	-40 to +150		$^\circ\text{C}$
θ_{j-c}	6.25		$^\circ\text{C/W}$

Equivalent circuit diagram



Characteristic curves



SMA6014

Electrical characteristics

($T_a=25^\circ\text{C}$)

Symbol	NPN					PNP				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
I_{CBO}			10	μA	$V_{CB}=60\text{V}$			-10	μA	$V_{CB}=-60\text{V}$
I_{EBO}			10	μA	$V_{EB}=6\text{V}$			-5	mA	$V_{EB}=-6\text{V}$
V_{CEO}	60			V	$I_C=10\text{mA}$	-60			V	$I_C=-10\text{mA}$
h_{FE}	1500	4000	10000		$V_{CE}=4\text{V}, I_C=1\text{A}$	2000	4000	10000		$V_{CE}=-4\text{V}, I_C=-1\text{A}$
$V_{CE(sat)}$			1.5	V	$I_C=1\text{A}, I_B=2\text{mA}$			-1.5	V	$I_C=-1\text{A}, I_B=-2\text{mA}$
$V_{BE(sat)}$			2.2	V				-2.2	V	
V_{FEC}		—		V				-1.8	V	$I_{FEC}=-1\text{A}$
t_{rr}		—		μs			3.0		μs	$I_{FEC}=\pm 100\text{mA}$
t_{on}		0.7		μs	$V_{CC}=\pm 30\text{V},$ $I_C=1\text{A},$ $I_{B1}=-I_{B2}=2\text{mA}$			0.4	μs	$V_{CC}=\pm 30\text{V},$ $I_C=-1\text{A},$ $I_{B1}=-I_{B2}=-2\text{mA}$
t_{stg}		5.0		μs				1.0	μs	
t_f		3.0		μs				0.4	μs	
f_T		20		MHz				100	MHz	
C_{ob}		45		pF	$V_{CB}=10\text{V}, f=1\text{MHz}$			30	pF	$V_{CB}=-10\text{V}, f=1\text{MHz}$

Characteristic curves

