### 查询2SC6046供应商

### 捷多邦,专业PCB打样工厂,24小时加急出货

## 2SC6046

2.5

1.5

0.5

0.5

0~0.1

EIAJ: SC-59

JEDEC: TO-236

Resemblance

Unit:mm

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

**OUTLINE DRAWING** 

0.95

8.C

TERMINAL CONNECTOR

06.2 6

### DESCRIPTION

2SC6046 is a silicon NPN epitaxial type transistor designed with high collector current, low V<sub>CE(sat)</sub>,

### **FEATURE**

High collector current

I<sub>C(MAX)</sub>=600mA Low collector to emitter saturation voltage V<sub>CE(sat)</sub><0.3V<sub>max</sub>(IC=150mA、IB=15mA)

### **APPLICATION**

For switching application, small type motor drive application.

MAXIMUM RATINGS(Ta.=25)									
記号	項目	定格値	単位						
V <sub>CEO</sub>	Collector to Emitter voltage	40	V						
V <sub>CBO</sub>	Collector to Base voltage	75	V						
V <sub>EBO</sub>	Emitter to Base voltage	6	V						
Ι <sub>c</sub>	Collector current	600	mA						
Pc	Collector dissipation	200	mW						
Τ <sub>i</sub>	Junction temperature	+150							
T <sub>stg</sub>	Storage temperature	-55 ~ +150							
LO TE WWW.DZSC.CO									



# **TypeName**

: BASE

MARKING

: EMITTER

: COLLECTOR

### ELECTRICAL CHARACTERISTICS (Ta.=25 )

Symbol	Parameter	Test condition	Limits			Unit
			Min	Тур	Max	Unit
$V_{(BR)CEO}$	C to E break down voltage	IC=1mA, IB=0	40			V
V <sub>(BR)CBO</sub>	C to B break down voltage	IC=10uA, IE=0	75			V
$V_{(BR)EBO}$	E to B break down voltage	IE=10uA、IC=0	6			V
I <sub>CBO</sub>	Collector cut off current	VCB=60V、IE=0			100	nA
I <sub>EBO</sub>	Emitter cut off current	VEB=3V, IC=0			100	nA
h <sub>FE</sub>	DC forward current gain	IC=150mA, VCE=10V	100		300	
V <sub>CE(sat)</sub>	C to E saturation voltage	IC=150mA, IB=15mA			0.3	V
$V_{BE(sat)}$	B to E saturation voltage	IC=150mA、IB=15mA	0.6		1.2	V
f <sub>T</sub>	Gain band width product	IE=-20mA、VCE=20V、f=100MHz		250		MHz
找了OPDF	Collector output capacitance	VCB=10V、f=1MHz			8	pF

2SC6046

VCE=10V

1000

Ta=25

IC=600mA

1

0.1

10

100

1

VCE=1V

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

Ta=25

1000

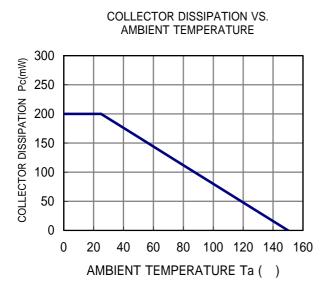
100

10

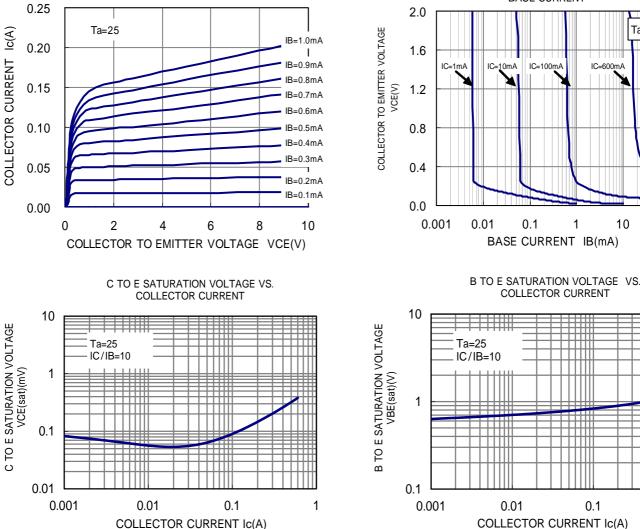
0.1

DC FORWARD CURRENT GAIN HEE

### **TYPICAL CHARACTERISTICS**



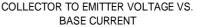
### COMMON EMITTER OUTPUT

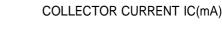


10 100 1

DC FORWARD CURRENT GAIN VS.

COLLECTOR CURRENT

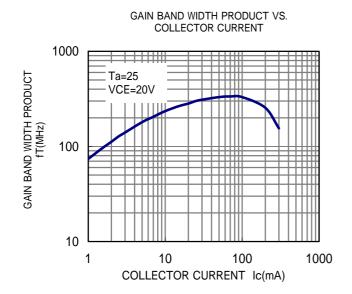


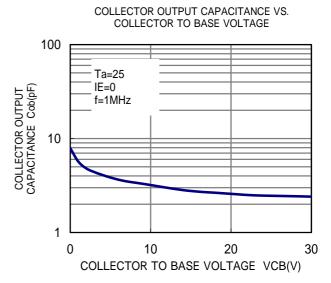




2SC6046

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE





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