DESCRIPTION

2SC6046 is a silicon NPN epitaxial type transistor designed with high collector current, low $V_{\text{CE}(\text{sat}).}$

FEATURE

High collector current

 $I_{C(MAX)}$ =600mA

Low collector to emitter saturation voltage

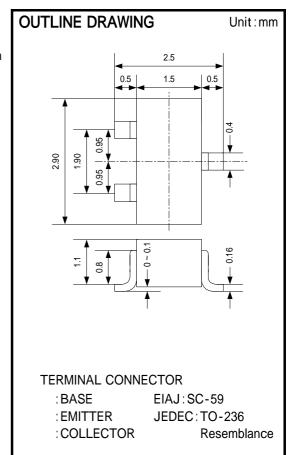
 $V_{CE(sat)}$ <0.3 V_{max} (IC=150mA、IB=15mA)

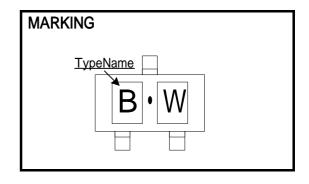
APPLICATION

For switching application, small type motor drive application.

MAXIMUM RATINGS (Ta.=25)

記号	項目	定格値	単 位	
V_{CEO}	Collector to Emitter voltage	40	V	
V_{CBO}	Collector to Base voltage	75	V	
V_{EBO}	Emitter to Base voltage	6	V	
I_{C}	Collector current	600	mA	
P_{C}	Collector dissipation	200	mW	
T _i	Junction temperature	+150	·	
T_{stg}	Storage temperature	-55 ~ +150		

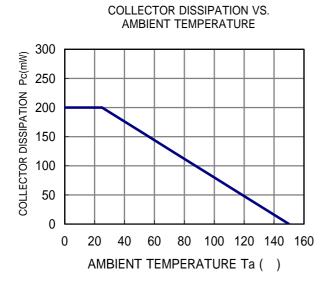


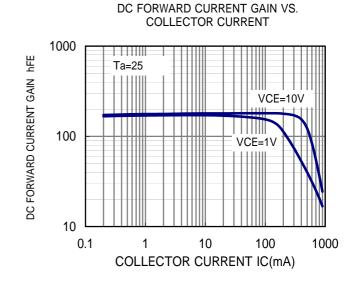


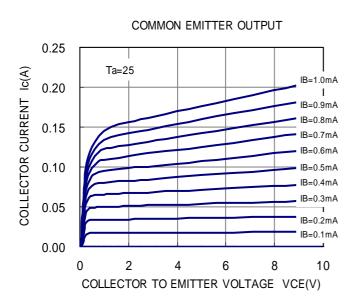
ELECTRICAL CHARACTERISTICS (Ta.=25

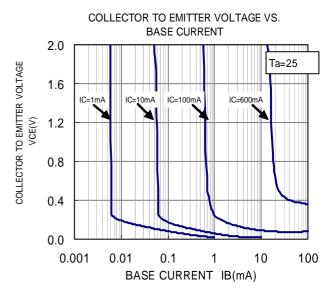
Symbol	Parameter	Test condition	Limits			Unit
			Min	Тур	Max	Offic
$V_{(BR)CEO}$	C to E break down voltage	IC=1mA、IB=0	40			V
$V_{(BR)CBO}$	C to B break down voltage	IC=10uA、IE=0	75			V
$V_{(BR)EBO}$	E to B break down voltage	IE=10uA、IC=0	6			V
I _{CBO}	Collector cut off current	VCB=60V, IE=0			100	nA
I _{EBO}	Emitter cut off current	VEB=3V, IC=0			100	nA
h_{FE}	DC forward current gain	IC=150mA、VCE=10V	100		300	
$V_{CE(sat)}$	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_T	Gain band width product	IE=-20mA, VCE=20V, f=100MHz		250	·	MHz
C_{ob}	Collector output capacitance	VCB=10V、f=1MHz			8	pF

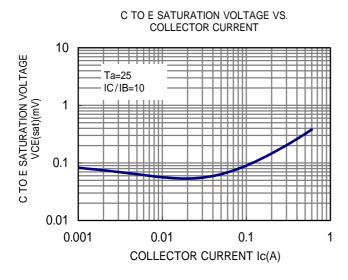
TYPICAL CHARACTERISTICS

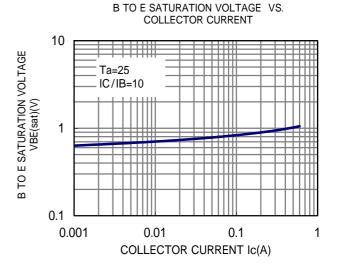




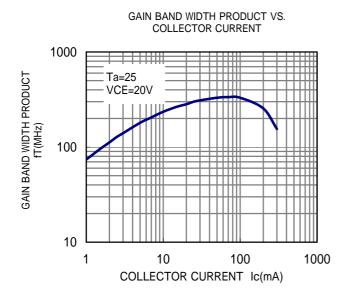


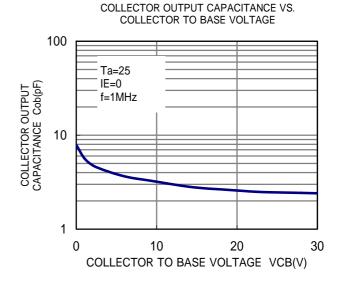






FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE







Marketing division, Marketing planning department

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