2SA2166

DESCRIPTION

ISAHAYA 2SA2166 is a silicon PNP epitaxial type transistor designed with high collector current, low $V_{\text{CE(sat)}}$

FEATURE

•High collector current

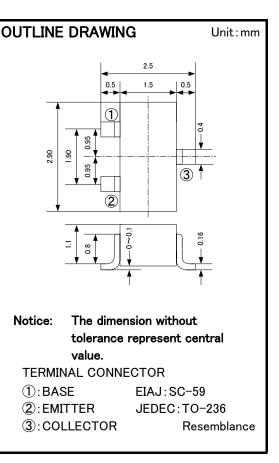
 $I_{C(MAX)} = -500 \text{mA}$

Low collector to emitter saturation voltage

V_{CE(sat)}<-0.4V_{max}(IC=-150mA、IB=-15mA)

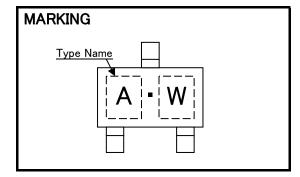
APPLICATION

For switching application, small type motor drive application.



MAXIMUM RATINGS (Ta=25°C)

記号	項目	定格値	単位	
V _{CEO}	Collector to Emitter voltage	-60	V	
V _{CBO}	Collector to Base voltage	-60	V	
V _{EBO}	Emitter to Base voltage	-5	V	
Ic	Collector current	-500	mA	
Pc	Collector dissipation	200	mW	
Tj	Junction temperature	150	°C	
T_{stg}	Storage temperature	-55~150	°C	

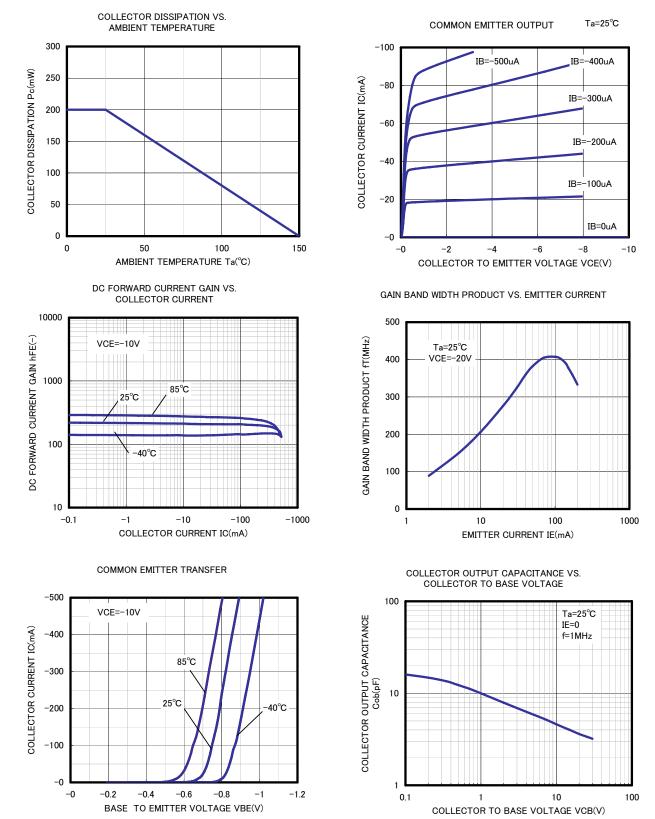


ELECTRICAL CHARACTERISTICS (Ta=25°C)

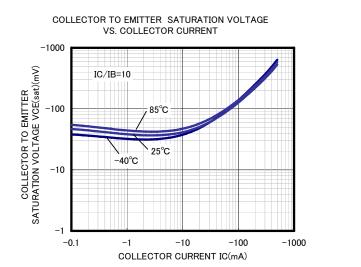
Symbol	Parameter	Test condition	Limits			Unit
			Min	Тур	Max	Onit
$V_{(BR)CEO}$	C to E break down voltage	IC=-1mA、IB=0	-60			V
$V_{(BR)CBO}$	C to B break down voltage	IC=-10uA、IE=0	-60			V
$V_{(BR)EBO}$	E to B break down voltage	IE=-10uA、IC=0	-5			V
I _{CBO}	Collector cut off current	VCB=-50V、IE=0			-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			-0.4	V
$V_{BE(sat)}$	B to E saturation voltage	IC=-150mA、IB=-15mA			-1.3	V
f _T	Gain band width product	IE=50mA、VCE=-20V、f=100MHz	200			MHz
C _{ob}	Collector output capacitance	VCB=-10V、f=1MHz			8	pF

FOR GENERAL PURPOSE HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

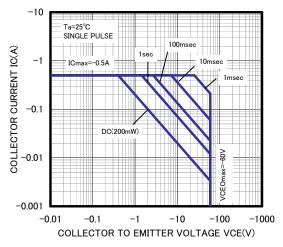
TYPICAL CHARACTERISTICS



ISAHAYA ELECTRONICS CORPORATION



AREA OF SAFE OPERATION





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