2SA2167-TH51

FOR HIGH CURRENT DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

AEC-Q101 Compliance

DESCRIPTION

2SA2167 is a silicon PNP epitaxial type transistor. It is designed with high voltage, high collector current, high collector dissipation.

FEATURE

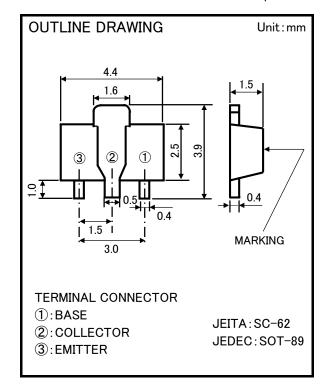
- High voltage VcEo=-60V
- High Collector current Ic=-2A
- ◆Low Collector to Emitter saturation voltage V_{CE(sat)} = 0.5VMax (@I_C=-1A/IB=-50mA)
- High Collector dissipation PC=500mW

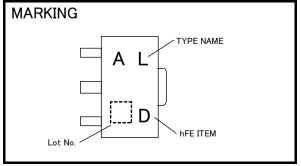
APPLICATION

Audiovisual apparatus, VTR, Relay drive

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit	
Vсво	Collector to Base voltage -60		V	
VEBO	Emitter to Base voltage	-6	V	
VCEO	Collector to Emitter voltage	-60	V	
I c	Collector current	-2	Α	
Ісм	Peak Collector current	-3	Α	
Pc	Collector dissipation	500	mW	
Tj	Junction temperature	150	လွ	
T _{stg}	Storage temperature	-55 ~ 150	°C	





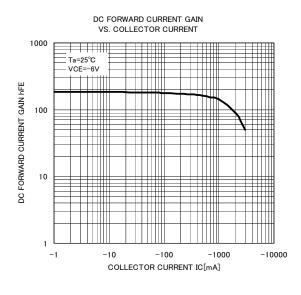
ELECTRICAL CHARACTERISTICS (Ta=25°C)

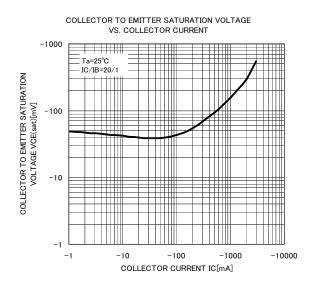
Cymah al	Parameter	Took condition	Limits			11
Symbol		Test condition	Min	Тур	Max	Unit
V(BR)CBO	Collector to Base brake down voltage	IC=-10uA、IE=0mA	-60	_	_	V
V(BR)EBO	Emitter to Base brake down voltage	IE=-10uA、IC=0mA	-6	_	_	V
V(BR)CEO	Collector to Emitter brake down voltage	IC=-2mA、RBE=∞	-60	_	_	V
І сво	Collector cut off current	VCB=-50V、IE=0mA	-	_	-0.2	μΑ
І ЕВО	Emitter cut off current	VEB=-4V、IC=0mA	-	_	-0.2	μΑ
hfe ※	DC forward current gain	VCE=-4V、IC=-100mA	55	_	300	_
VCE(sat)	Collector to Emitter saturation voltage	IC=-1A、IB=-50mA	_	-0.2	-0.5	V
fт	Gain band width product	VCE=-2V、IE=10mA	_	65	_	MHz
Cob	Collector output capacitance	VCB=10V, IE=0mA, f=1MHz	_	23	_	pF

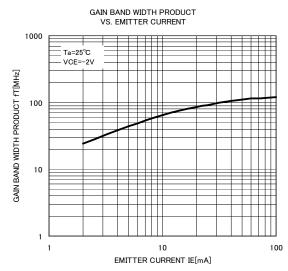
※) It shows hFE classification at right table.

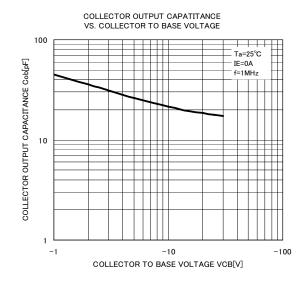
Item	С	D	E
hFE	55 ~ 110	90~180	150~300

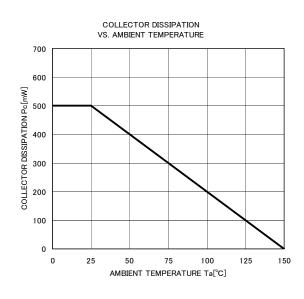
TYPICAL CHARACTERISTICS

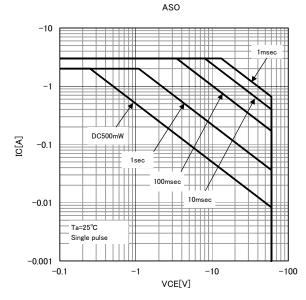














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