FOR SMALL TYPE MOTOR PLUNGER DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC3439 is a silicon NPN epitaxial type transistor designed with high collector dissipation, high collector current, high hre.

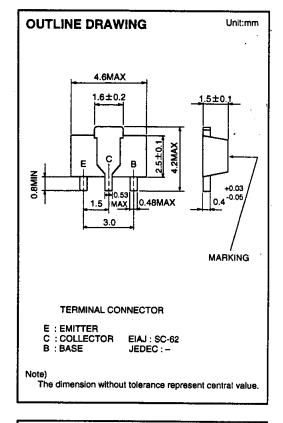
Complementary with 2SA1369.

FEATURE

- ●High hFE hFE=400 to 1800
- ●High collector current (ICM=3A, IC=1.5A)
- ●Low VCE(sat) VCE(sat)=0.2V typ(@IC=1A, IB=20mA)
- ●High collector dissipation Pc=500mW
- Small package for mounting

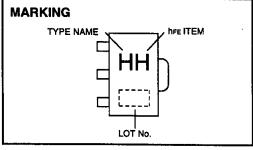
APPLICATION

VCR, tape deck, small type motor drive for player, drive for relay, power supply for riple filter.



MAXIMUM RATINGS (Ta=25℃)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	30	V
VEBO	Emitter to Base voltage	6	V
VCEO	Collector to Emitter voltage	25	V
lсм	Peak collector current	3	A
lc	Collector current	1.5	Α
Pc	Collector dissipation(Ta=25°C)	500	mW
Ti	Junction temperature	+150	ా
Tatg	Storage temperature	-55 to +150	ార



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits		
			Min	Тур	Max	Unit
V(BR)CBO	C to B break down voltage	IC=10 μ A,IE=0	30			V
V(BR)EBO	E to B break down voltage	IE=10 μ A,IC=0	6			v
V(BR)CEO	C to E break down voltage	lc=1mA,RBE=∞	25			v
Ісво	Collector cut off current	VcB=20V,IE=0		1	0.1	μΑ
IEBO .	Emitter cut off current	VEB=2V,IC=0			0.1	μΑ
hre *	DC forward current gain	Vce=6V,lc=500mA	400		1800	
VCE(sat)	C to E saturation voltage	lc=1A,ls=20mA		0.2	0.5	V
fr	Gain band width product	VcE=10V,IE=-10mA		130		MHz
Соь	Collector output capacitance	VcB=10V,IE=0, f=1MHz		17	 	pF

^{* :} It shows her classification in right table.

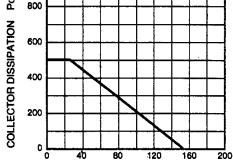
hFE 400 to 800 600 to 1200 900 to	Marking	HG	HH	HJ
300 10 10 10 10	hFE	400 to 800	600 to 1200	900 to 1800

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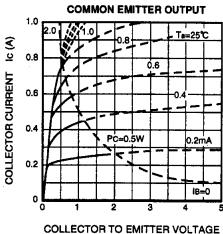
TYPICAL CHARACTERISTICS

AMBIENT TEMPERATURE O 800 NO

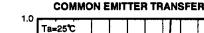
COLLECTOR DISSIPATION VS.

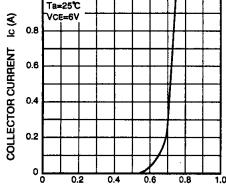


AMBIENT TEMPERATURE Ta (C)



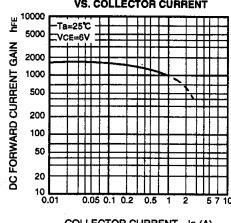
VCE (V)





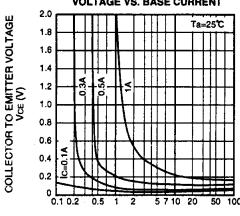
BASE TO EMITTER VOLTAGE VBE (V)

DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



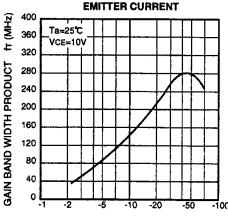
COLLECTOR CURRENT Ic (A)

COLLECTOR TO EMITTER SATURATION VOLTAGE VS. BASE CURRENT



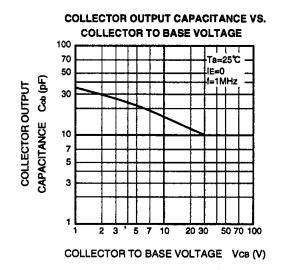
BASE CURRENT IB (mA)

GAIN BAND WIDTH PRODUCT VS.



EMITTER CURRENT is (mA)

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