ISA1286AS1

FOR SMALL TYPE MOTOR, PLUNGER DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

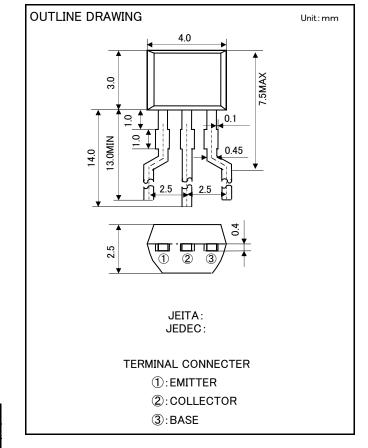
ISA1286AS1 is a silicon PNP epitaxial type transistor. Designed with high collector current and high hFE. Complementary with 2SC5484.

FEATURE

- High hFE hFE=400 to 800
- High collector current. $(I_c=-1.5A, I_{CM}=-3A)$
- •Low collector to emitter saturation voltage.
 - $V_{CE}(sat) = -0.25V \text{ typ}(@I_{C} = -1A, I_{B} = -20mA)$
- High collector dissipation. P_c =600mW

APPLICATION

Small type motor drive plunger for VCR, tape deck, player, drive for relay, etc.



MAXIMUM RATINGS(Ta=25°C)

Symbol	Parameter Ratings		Unit	
Vсво	Collector to Base voltage	-30 V		
VEBO	Emitter to Base voltage	-6 V		
VCEO	Collector to Emitter voltage	-20	V	
I _C	Collector current	-1.5	А	
I _{CM}	Peak collector current	-3	А	
P。	Collector dissipation	600	mW	
Tj	Junction temperature	+150	°C	
T _{stg}	Storage temperature	-55 ~ +150	°C	

ELECTRICAL CHARACTERISTICS(Ta=25°C)

Parameter	Parameter	Test conditions	Limits			Unit
		Test conditions		Тур	Max	Unit
V(BR)cbo	C to B break down voltage	IC=-10 μ A, IE=0mA	-30	—	—	V
V(br)ebo	E to B break down voltage	IE=-10 μ A, IC=0mA	-6	_	_	V
V(BR)CEO	C to E break down voltage	IC=−1mA, RBE=∞	-20	_	_	V
Ісво	Collector cut off current	VCB=-20V, IE=0mA	_	_	-0.1	μA
IEBO	Emitter cut off current	VEB=-2V, IC=0mA	_	_	-0.1	μA
hFE※	DC forward current gain	VCE=-6V, IC=-500mA	400	_	800	—
VCE(sat)	C to E Saturation Voltage	IC=-1A, IB=-20mA	I	-0.25	-0.5	V
fT	Gain band width product	VCE=-10V, IE=10mA	_	90	_	MHz
Cob	Collector output capacitance	VCB=-10V, IE=0mA, f=1MHz	_	37	_	pF

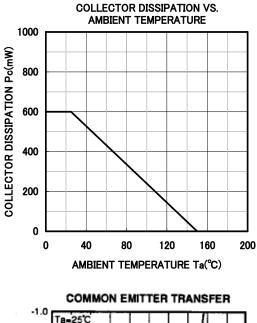
%) It shows hFE classification in right table.

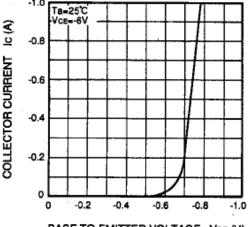
	-
ltem	G
hFE	400~800

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TYPIAL CHARACTERISTICS



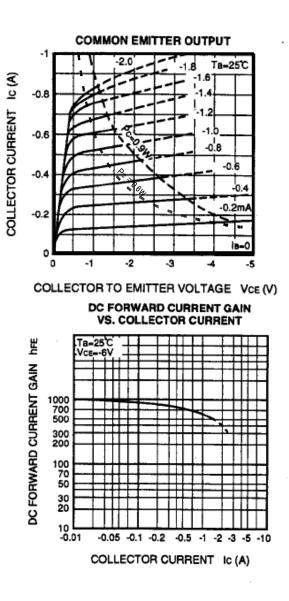


BASE TO EMITTER VOLTAGE VBE (V)

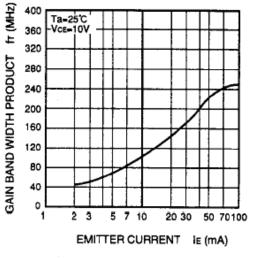
COLLECTOR TO EMITTER SATURATION VOLTAGE VS. BASE CURRENT -2.0 Ta=25 C -1.8 -1.6 -1.4 -1.2 -1.0 -0.5A -0.8 -0.6 -0.4 -0.2 0 -0.2 0.5 1 •2 -10 -20 -50 -100 -0.1 -5 BASE CURRENT IB (mA)

.

COLLECTOR TO EMITTER VOLTAGE VCE (V)



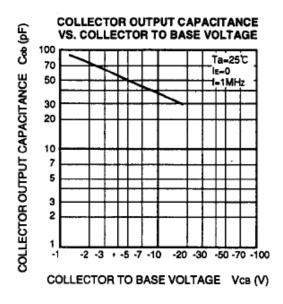
GAIN BAND WIDTH PRODUCT VS. EMITTER CURRENT



ISAHAYA ELECTRONICS CORPORATION

ISA1286AS1

FOR SMALL TYPE MOTOR, PLUNGER DRIVE APPLICATION SILICON PNP EPITAXIAL TYPE





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