FOR LOW FREQUENCY POWER AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC3444 is a silicon NPN epitaxial type transistor designed for relay drive, power supply application.

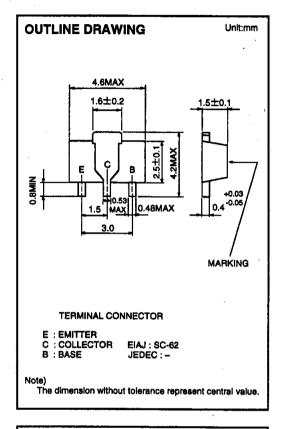
Complementary with 2SA1364.

FEATURE

- ●High voltage VcEo=60V
- ●High collector current (ic=1A)
- ●Low collector to emitter saturation voltage VCE(sat)=0.11V typ(@IC=500mA, IB=25mA)
- ●High collector dissipation Pc=500mW
- Small package for mounting

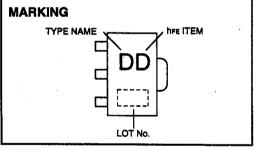
APPLICATION

Audio machine, VCR, relay drive, power supply.



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
Ісм	Peak collector current	2	A
lc	Collector current	1	Α
Pc	Collector dissipation(Ta=25℃)	500	mW
Tj	Junction temperature	+150	°C
Tatg	Storage temperature	-55 to +150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

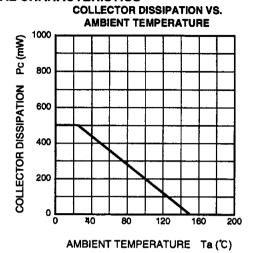
Symbol	Parameter	Test conditions		Limits		
		Test conditions	Min	Тур	Max	Unit
V(BR)CBO	C to B break down voltage	IC=10 μ A,IE=0	60			٧
V(BR)EBO	E to B break down voltage	IE=10 μ A,IC=0	6			٧
V(BR)CEO	C to E break down voltage	Ic=2mA,RBE=∞	60			٧
Ісво	Collector cut off current	Vcb=50V,IE=0			0.2	μΑ
ÍEBO	Emitter cut off current	VEB=4V,1C=0			0.2	μΑ
hfe *	DC forward current gain	VcE=4V,lc=100mA	55		300	
VCE(sat)	C to E saturation voltage	lc=500mA,IB=25mA		0.11	0.3	٧
fr	Gain band width product	Vce=2V,Ie=-10mA		80		MHz
Cob	Collector output capacitance	Vcs=10V,IE=0, f=1MHz		14		pF

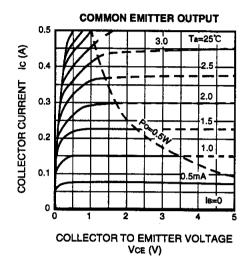
^{* :} It shows her classification in right table.

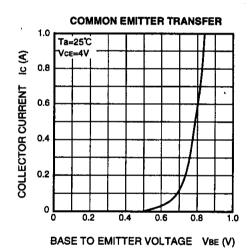
Marking	DC	DD	DE
hfE	55 to 110	90 to 180	150 to 300

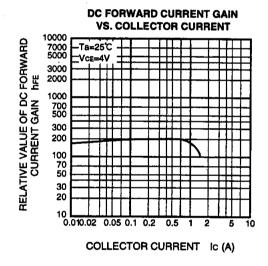
FOR LOW FREQUENCY POWER AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

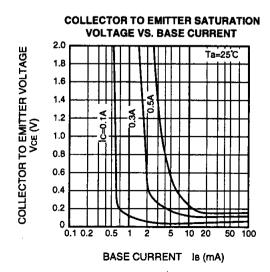
TYPICAL CHARACTERISTICS

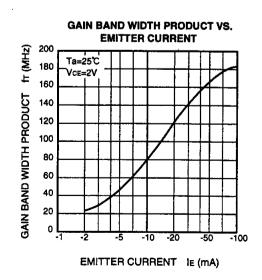




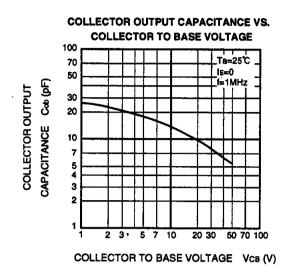








FOR LOW FREQUENCY POWER AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE





http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

Keep safety in your circuit designs!

Isahaya Electronics Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of non-flammable material or (iii) prevention against any malfunction or mishap.

Notes regarding these materials

•These materials are intended as reference to assist out customers in the selection of the Isahaya semiconductor product best suited to the customer's application, they do not convey any license under any intellectual property rights, or any other rights, belonging to Isahaya Electronics Corporation or a third party.

Isahaya Electronics Corporation assumes no responsibility for any damage, or infringement of any third-party rights, originating in the use of any product data, diagrams, charts or circuit application examples contained in the materials.

All information contained in these materials, including product data, diagrams and charts, represent information on products at the time of publication of these materials, and are subject to change by Isahaya Electronics Corporation without notice due to product improvements or other reasons. It is therefore recommended that customers contact Isahaya Electronics Corporation or authorized Isahaya Semiconductor product distributor for the latest product information before purchasing a product listed herein.

The prior written approval of Isahaya Electronics Corporation is necessary to reprint or reproduce in whole or in part these materials.

If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination. Any diversion or reexport contrary to the export control laws and regulations of Japan and/or the country of destination is prohibited.

Please contact Isahaya Electronics Corporation or an authorized Isahaya Semiconductor product distributor for further details on these materials or the products contained therein.