FOR HIGH CURRENT DRIVE AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

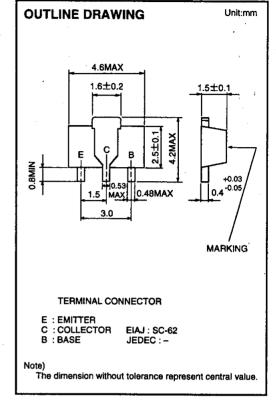
, 2SC4357 is a silicon NPN epitaxial type transistor designed for high collector current, for high voltage.

FEATURE

- ●High voltage VcEo=60V
- ●High collector current (Ic=2A)
- ●Low collector to emitter saturation voltage VCE(sat)=0.5V max(@Ic=1A, Is=50mA)
- High collector dissipation Pc=500mW

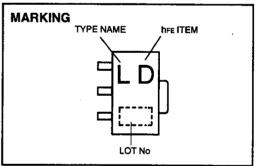
APPLICATION

Audio machine, VCR, relay drive, power supply.



MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	60	٧
VEBO	Emitter to Base voltage	6	V
VCEO	Collector to Emitter voltage	60	V
Ісм	Peak Collector current	3	Α
Ic	Collector current	2	A
Pc	Collector dissipation(Ta=25℃)	500	mW
Tj	Junction temperature	+150	°C
Tstg	Storage temperature	-55 to +150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

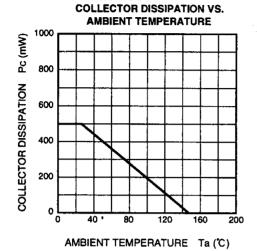
Symbol	Parameter	Test conditions	Limits			Unit
		Test conditions	Min	Тур	Max	Uilk
V(BR)CBO	C to B break down voltage	IC=10 μ A,IE=0	60			V
V(BR)EBO	E to B break down voltage	IE=10 μ A,IC=0	6			V
V(BR)CEO	C to E break down voltage	Ic=2mA,Rse=∞	60			V
Ісво	Collector cut off current	VcB=50V,IE=0			0.2	μΑ
lebo .	Emitter cut off current	VEB=4V,IC=0		· ·	0.2	μΑ
hfe *	DC forward current gain	VcE=4V,lc=100mA	55		300	
VCE(sat)	C to E saturation voltage	ic=1A,iв=50mA		0.2	0.5	V
fr	Gain band width product	Vce=2V,le=-10mA		80		MHz
Соь	Collector output capacitance	VcB=10V,IE=0, f=1MHz		18		pF

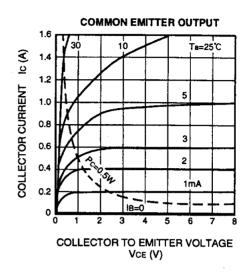
^{* :} It shows her classification in right table.

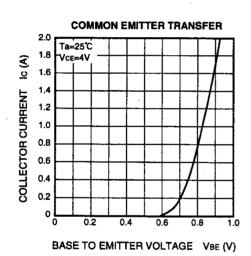
Marking	LC	LD	LE
hFE	55 to 110	90 to 180	150 to 300

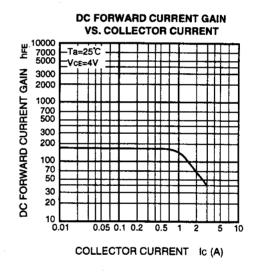
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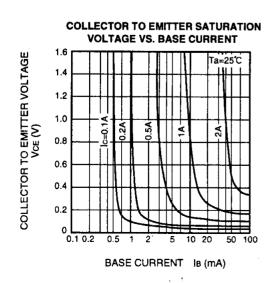
TYPICAL CHARACTERISTICS

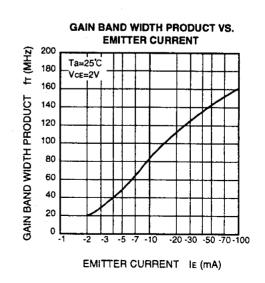




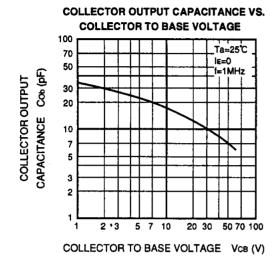


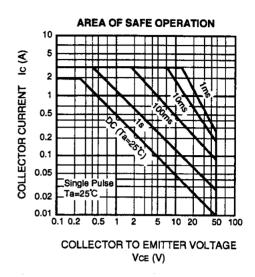






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