# FOR HIGH VOLTAGE DRIVE APPLICATION SILICON NPN EPITAXIAL TYPE

## **DESCRIPTION**

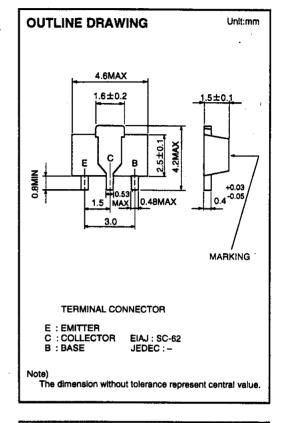
2SC3438 is a silicon NPN epitaxial type transistor designed for power supply, 20 to 40W output low frequency power amplifier drive application. Complementary with 2SA1368.

#### **FEATURE**

- ●High voltage VcEo=100V
- High peak collector current (Icм=800mA)
- ●High gain band width product fr=130MHz typ
- High collector dissipation Pc=500mW
- Small package for mounting

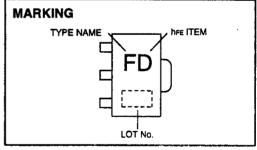
#### **APPLICATION**

Complementary drive for 20 to 40W amplifier, relay drive power supply etc.



## MAXIMUM RATINGS (Ta=25℃)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	100	V
VEBO	Emitter to Base voltage	5	V
VCEO	Collector to Emitter voltage	100	V
Ісм	Peak Collector current	800	mA
lc	Collector current	500	mA
Pc	Collector dissipation(Ta=25°C)	500	mW
Tj	Junction temperature	+150	℃
Tstg	Storage temperature	-55 to +150	℃ -



#### ELECTRICAL CHARACTERISTICS (Ta=25℃)

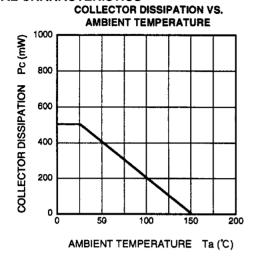
Symbol	Parameter	Test conditions		Limits		
		1 est conditions	Min	Тур	Max	Unit
V(BR)CBO	C to B break down voltage	IC=10 μ A,IE=0	100			V
V(BR)EBO	E to B break down voltage	IE=10 μ A,IC=0	5			V
V(BR)CEO	C to E break down voltage	Ic=1mA,RBE=∞	100			V
Ісво	Collector cut off current	VcB=50V,łE=0			0.5	μА
IEBO	Emitter cut off current	VEB=2V,IC=0			0.5	μА
hfe *	DC forward current gain	VcE=10V,lc=10mA	55		300	
VCE(sat)	C to E saturation voltage	Ic=150mA,IB=15mA		0.15	0.5	V
fī	Gain band width product	Vce=10V,IE=-10mA		130		MHz
Cob	Collector output capacitance	VcB=10V.IE=0. f=1MHz		7		ρF

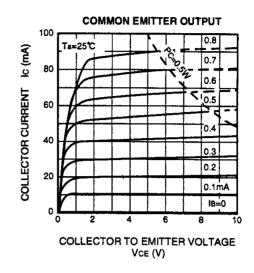
<sup>\* :</sup> It shows her classification in right table.

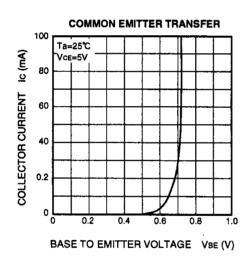
Marking	FC	FD	ΕE
hfE	55 to 110	90 to 180	150 to 300

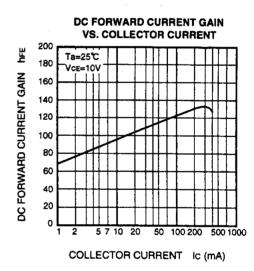
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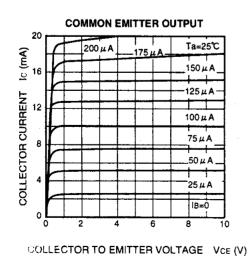
## TYPICAL CHARACTERISTICS

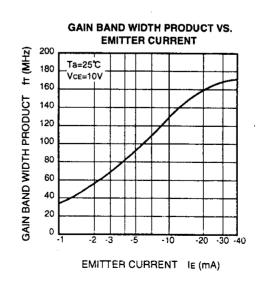




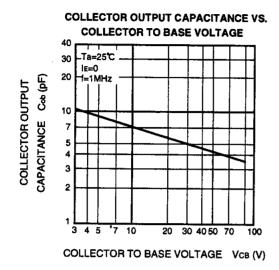








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