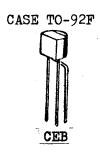


BC 337 · BC 338

NPN SILICON AF MEDIUM POWER TRANSISTORS

THE BC337, BC338 ARE NPN SILICON PLANAR EPITAXIAL TRANSISTORS FOR USE IN AF DRIVER AND OUTPUT STAGES, AS WELL AS FOR UNIVERSAL APPLICATIONS. THE BC337, BC338 ARE COMPLEMENTARY TO THE PNP TYPE BC327, BC328 RESPECTIVELY.



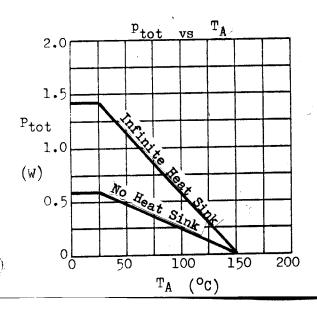
ABSOLUTE MAXIMUM RATINGS
Collector-Emitter Voltage (VBE=0)
Collector-Emitter Voltage (IB=0)
Emitter-Base Voltage
Collector Current
Collector Peak Current (t≤10mS)
Total Power Dissipation (@ $^{\text{T}}$ C $\leq 25^{\circ}$ C)
(@ T _A ≤25°C)
Operating Junction & Storage Temperature

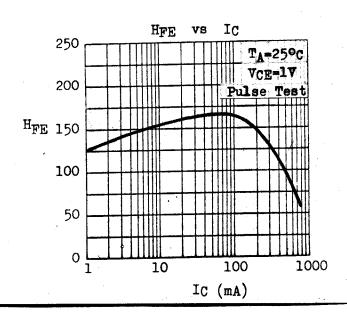
	BC337	BC338
VCES	50 v	30₹
ACEO	45 V	25 V
v_{EBO}	5	V
IC	0.8	A
ICM	1.5	A
P _{tot}	1.4	W
	625	mW
Tj, Tstg	-55 to	150°C

Junction	to	Case
Junction	to	Ambient

THERMAL RESISTANCE

0jc	90°C/W	max.
0ja	200°C/W	max.





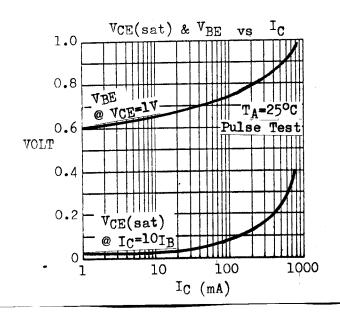
MICRO ELECTRONICS LTD.

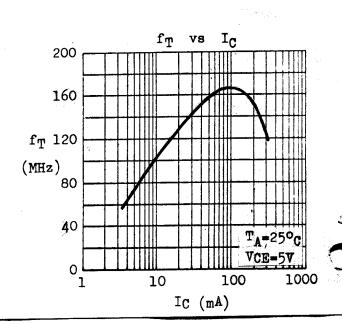
38 HUNG TO ROAD, KWUN TONG, HONG KONG. TELEX 43510 KWUN TONG P. O. BOX69477 CABLE ADDRESS "MICROTRON" TELEPHONE: 3-430181-6

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

ELECTRICAL CHARACTERISTICS ('A=25°C	unless	OMETATO	6 110 0	eu/				
PARAMETER	SYMBOL	BC33 MIN TYP	7 MAX	MIN	C338 TYP MAX	UNIT	TEST CONI	OITIONS
Collector-Emitter Breakdown Voltage	BVCES	50		30		٧	Ic=0.lmA	ABE=0
Collector-Emitter Breakdown Voltage	LVCEO *	45		25		V	IC=10mA	IB=0
Emitter-Base Breakdown Voltage	BAEBO	5		5		V	IE=0.lmA	IC=0
Collector Cutoff Current	ICES		100		100	nA nA	VCES=45V VCES=25V	
	-		10		10	A Au	VCES=45V VCES=25V	_
Collector-Emitter Saturation Voltage	VCE(sat)	* 	0.7		0.7	v	Ic=500mA	IB=50mA
Base-Emitter Voltage	v _{BE} *		1.2		1.2	v	IC=300mA	ACE=1A
D.C. Current Gain Group 16 (A) Group 25 (B) Group 40 (C) All Groups	HFE *	100 100 160 250 40	630 250 400 630	100 100 160 250 40	630 250 400 630		Ic=100mA	02
H _{FE} Matched Pair Ratio	HFE 1 HFE 2		1.41		1.41		IC=100mA	VCI
Current Gain-Bandwidth Product	fŢ	100)		100	MHz	IC=10mA	VCE=5V
Collector-Base Capacitance	Сов	10)		10	pF	V _{CB} =10V f=1MHz	IE=0

^{*} Pulse Test : Pulse Width=0.3mS, Duty Cycle=1%





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Datasheets for electronics components.