FUJITSU TRANSISTOR

25C2O43

2SC2043 is an NPN epitaxial planar type silicon transistor and is designed for use in output stage of 27MHz-citizen band SSB tranceiver application. This transistor has the following outstanding features.

- * Power Output 12 Watts.(PEP)
- * Power Gain
- * Large Surge Capability.

MAXIMUM RATINGS (Ambient Temperature: 25 °C)

Item	Symbol	Condition	Rating	Unit
Collector-Base Voltage	v_{CBO}		70	V
Emitter-Base Voltage	v_{EBO}		5	v
Collector-Emitter Voltage	v _{CER}	$R_{\rm BE}$ =100 ohm	70	V
Collector Current	IC	pulse width 20ms duty 50%	8	A
Total Power Dissipation	$\mathbf{P_{T}}$	T _C =25 °C	25	W
Junction Temperature	Ti	•	+150	°C
Storage Temperature	Tstg	•	-55 ∼ +150	°C

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ET ECTUTCAT	CHARACTERISTICS	(Ambient	Temperature:	25	°C)
ELECTIVECUE	CHARACTERIC	(LEWIS T CITE			- /

Item	Symbol	Test Condition	Min.	Limit Typ.	Max.	Unit
Collector Cut-off Current	^I сво	$v_{CB}=30 \text{ V}, I_{E}=0$			10	ДЦ
Collector-Base Breakdown Voltage	BV _{CBO}	I _{CB} =0.1 mA, I _E =0	70			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_{EB}=0.1$ mA, $I_{C}=0$	5			v ,
Collector-Emitter Breakdown Voltage	BVCER	I _{CE} =1 mA, R _{BE} =100 ohm	70		and the same of th	V,
DC Current Gain	h_{FE}	$v_{CE}=5$ V, $I_{C}=0.5$ A	20	, ar	200	-
Cut-Off Frequency	f _T	$V_{CE}=5$ V, $I_{C}=150$ mA		220		MHz
Collector Output Capacitance	Cob	V _{CB} =10 V, I _E =0, f=1MHz		70	100	pF
High Frequency Output Power	Pout	f=27MHz,V _{CC} =12V,P _{in} =0.2W	7.5	8.5		W

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