Transistors 2SC838

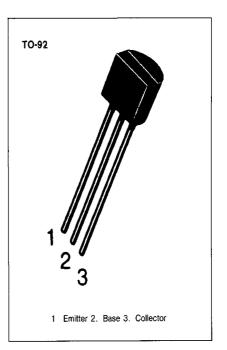


FM RADIO RF AMP, MIX, CONV, OSC, IF AMP

• High Current Gain Bandwidth Product f_T = 250MHz (Typ)

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	35	٧
Collector-Emitter Voltage	V _{CEO}	30	٧
Emitter-Base Voltage	V _{EBO}	4	٧
Collector Current	lc	30	mA
Collector Dissipation	Pc	250	mW
Junction Temperature	Ti	150	°C
Storage Temperature	Tstg	-55∼150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	$I_{C} = 100 \mu A, I_{E} = 0$	35			٧
Collector-Emitter Breakdown Voltage	BV _{CEO}	$I_C = 5mA$, $I_B = 0$	30			V
Emitter-Base Breakdown Voltage	BV _{EBO}	$I_{E} = 10 \mu A, I_{C} = 0$	4			V
Collector Cut-off Current	Icso	$V_{CB} = 30V, I_{E} = 0$			0.1	μA
Emitter Cut-off Current	I _{EBO}	$V_{EB} = 4V, I_{C} = 0$			0.1	μΑ
DC Current Gain	h _{FE}	$V_{CE} = 12V, I_{C} = 2mA$	40		240	İ
Base-Emitter On Voltage	V _{BE} (on)	$V_{CE} = 6V$, $I_C = 1mA$	0.65	0.75	0.75	V
Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C =10mA, I _B =1mA		0.1	0.4	V
Current Gain-Bandwidth Product	f _T	V _{CE} =10V, I _C =1mA	100	250		MH
Output Capacitance	Cob	V _{CB} = 10V, I _E = 0 f=1MHz		2.0	3.2	pF

hFE CLASSIFICATION

Classification	R	0	Y
h _{FE}	40-80	70-140	120-240



This datasheet has been downloaded from:

www. Data sheet Catalog.com

Datasheets for electronic components.