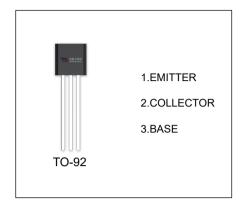


2SC380TM TRANSISTOR (NPN)

FEATURES

High Frequency Amplifier Applications



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC380TM	TO-92	Bulk	1000pcs/Bag
2SC380TM-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol Para	meter	Value	Unit
V _{CBO}	Collector-Base Voltage	35	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	4	V
I _C	Collector Current	50	mA
Pc	Collector Power Dissipation	300	mW
R ₀ JA	Thermal Resistance From Junction To Ambient	416	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃



$T_a \text{=} 25\,^\circ\!\!\subset\,$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_{C} = 0.1 \text{mA}, I_{E} = 0$	35			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA,I _C =0	4			V
Collector cut-off current	I _{CBO}	V _{CB} =35V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =12V, I _C =2mA	40		240	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10mA,I _B =1mA			0.4	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =10mA,I _B =1mA			1	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz			3.2	pF
Transition frequency	f _T	VcE=10V,Ic=1mA	100			MHz

CLASSIFICATION OF h_{FE}

RANK	R	0	Υ
RANGE	40-80	70-140	120-240



