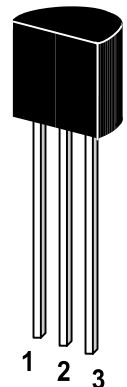


ST 2SC380

NPN Silicon Epitaxial Planar Transistor
High frequency amplifier application

The transistor is subdivided into three groups, R, O,
and Y, according to its DC current gain

On special request, these transistors can be
manufactured in different pin configurations.



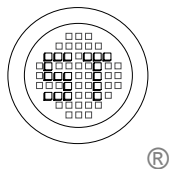
1. Emitter 2. Collector 3. Base

TO-92 Plastic Package
Weight approx. 0.19g

Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	35	V
Collector Emitter Voltage	V_{CEO}	30	V
Emitter Base Voltage	V_{EBO}	4	V
Collector Current	I_{C}	50	mA
Emitter Current	$-I_{\text{E}}$	50	mA
Power Dissipation	P_{tot}	300	mW
Junction Temperature	T_{j}	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{s}	-55 to +125	$^{\circ}\text{C}$

G S P FORM A IS AVAILABLE



РАДИОТЕХ

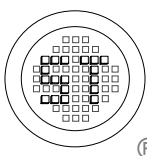
Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

ST 2SC380

Characteristics at $T_{amb}=25^{\circ}C$

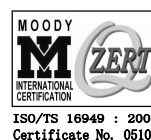
	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=12V$, $I_C=2mA$					
Current Gain Group R	h_{FE}	40	-	80	-
O	h_{FE}	70	-	140	-
Y	h_{FE}	120	-	240	-
Collector Cutoff Current at $V_{CB}=35V$	I_{CBO}	-	-	0.1	μA
Emitter Cutoff Current at $V_{EB}=4V$	I_{EBO}	-	-	0.1	μA
Collector Saturation Voltage at $I_C=10mA$, $I_B=1mA$	$V_{CE(sat)}$	-	-	0.4	V
Base Emitter Voltage at $I_C=10mA$, $I_B=1mA$	V_{BE}	-	-	1	V
Transition Frequency at $V_{CE}=10V$, $I_C=1mA$	f_T	100	-	400	MHz
Collector Output Capacitance at $V_{CB}=10V$, $f=1MHz$	C_{ob}	1.4	2.0	3.2	pF
Collector Base Time Constant at $V_{CE}=10V$, $I_E=-1mA$, $f=30MHz$	$C_c, r_{bb'}$	10	-	50	ps
Power Gain at $V_{CC}=6V$, $f=10.7MHz$, $I_E=-1mA$	G_{pe}	27	29	33	dB

G S P FORM A IS AVAILABLE



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, acompany
listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116

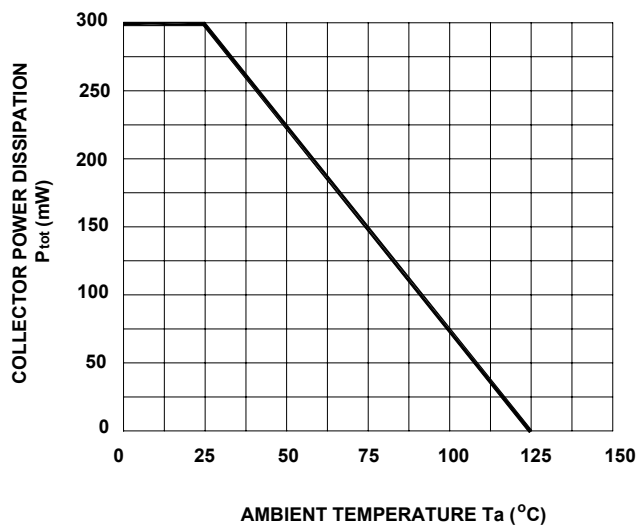


ISO 9001 : 2000
Certificate No. 0509-1999-00-000-000

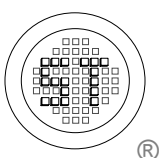
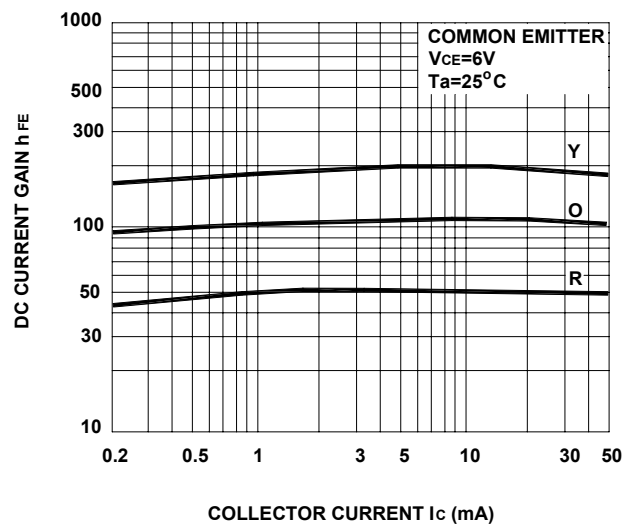
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ST 2SC380

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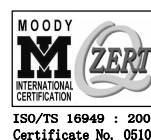


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Dated : 07/12/2002