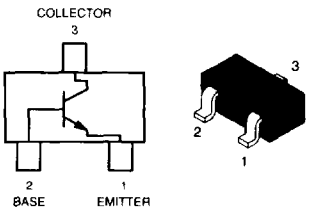
MSC2404-CT1★

CASE 318D-03, STYLE 1



SC-59 PACKAGE
NPN RF AMPLIFIER
TRANSISTOR
SURFACE MOUNT

***This is a Motorola designated preferred device.**

MAXIMUM RATINGS (T_A = 25°C)

Rating	Symbol	Value	Unit
Collector-Base Voltage	$V_{(BR)CBO}$	30	Vdc
Collector-Emitter Voltage	$V_{(BR)CEO}$	20	Vdc
Emitter-Base Voltage	$V_{(BR)EBO}$	3	Vdc
Collector Current-Continuous	I_C	15	mAdc

THERMAL CHARACTERISTICS

Rating	Symbol	Max	Unit
Power Dissipation	P_D	150	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	−55 ~ + 150	°C

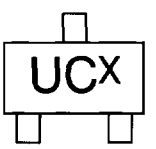
ELECTRICAL CHARACTERISTICS (T_A = 25°C)

Characteristic	Symbol	Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	I_C = 10 μA, I_E = 0	30	—	Vdc
Collector Emitter Breakdown Voltage	$V_{(BR)EBO}$	I_E = 10 μA, I_C = 0	3	—	Vdc
DC Current Gain	h_{FE}*	V_{CB} = 6 V, I_E = −1 mA	65	160	—
Current-Gain — Bandwidth Product	f_T	V_{CB} = 6 V, I_E = −1 mA	450	—	MHz
Reverse Transfer Capacitance	C_{re}	V_{CE} = 6 V, I_C = 1 mA, f = 10.7 MHz	—	1	pF

*Pulse Test: Pulse Width ≤ 300 μs, D.C. ≤ 2%.

DEVICE MARKING

Marking Symbol



The "X" represents a smaller alpha digit Date Code. The Date Code indicates the actual month in which the part was manufactured.