

RoHS Compliant Product
 A suffix of "-C" specifies halogen & lead-free

FEATURES

- High breakdown voltage

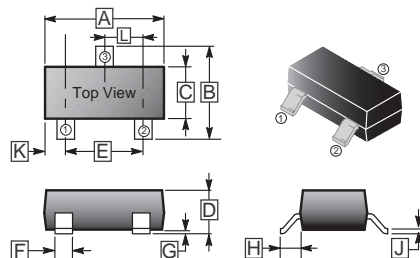
MARKING

Product	Marking Code
2SA1179	M

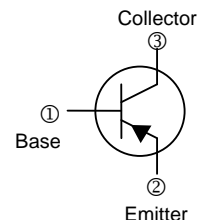
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-23	3K	7' inch

SOT-23



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.80	3.00	G	0.10 REF.	
B	2.25	2.55	H	0.55 REF.	
C	1.20	1.40	J	0.08	0.15
D	0.90	1.15	K	0.5 REF.	
E	1.80	2.00	L	0.95 TYP.	
F	0.30	0.50			



ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V _{(BR)CBO}	-55	V
Collector to Emitter Voltage	V _{(BR)CEO}	-50	V
Emitter to Base Voltage	V _{(BR)EBO}	-5	V
Collector Current - Continuous	I _C	-150	mA
Collector Power Dissipation	P _C	200	mW
Junction and Storage Temperature	T _J , T _{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	V _{(BR)CBO}	-55	-	-	V	I _C = -10μA, I _E = 0
Collector to Emitter Breakdown	V _{(BR)CEO}	-50	-	-	V	I _C = -1mA, I _B = 0
Emitter to Base Breakdown Voltage	V _{(BR)EBO}	-5	-	-	V	I _E = -10μA, I _C = 0
Collector Cut-off Current	I _{CBO}	-	-	-0.1	μA	V _{CB} = -35V, I _E = 0
Emitter Cut-off Current	I _{EBO}	-	-	-0.1	μA	V _{EB} = -4V, I _C = 0
DC Current Gain	h _{FE}	200	-	400		V _{CE} = -6V, I _C = -1mA
Collector to Emitter Saturation Voltage	V _{CE(sat)}	-	-	-0.5	V	I _C = -50mA, I _B = -5mA
Base to Emitter Saturation Voltage	V _{BE(sat)}	-	-	-1.0	V	I _C = -50mA, I _B = -5mA
Transition Frequency	f _T	-	180	-	MHz	V _{CE} = -6V, I _C = -10mA
Collector Output Capacitance	C _{ob}	-	4	-	pF	V _{CB} = -6V, I _E = 0, f = 1MHz

CHARACTERISTICS CURVE

