

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

FEATURES

- Low C_{ob} : $C_{ob}=2\text{pF}$ (Typ.)
- Complement of 2SA1774CR-R-C
- Qualified to AEC-Q101 Standards for High Reliability

MARKING

BR

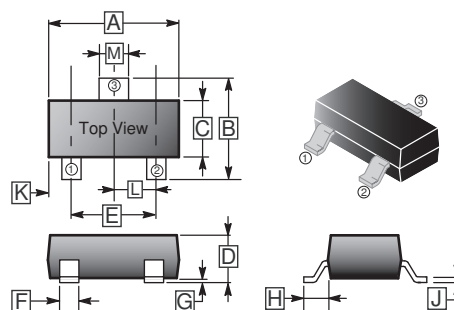
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-523	3K	7 inch

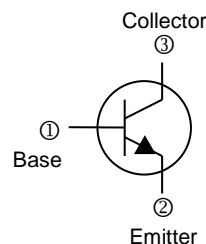
ORDER INFORMATION

Part Number	Type
2SC4617CR-R-C	Lead (Pb)-free and Halogen-free

SOT-523



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	G	-	0.10
B	1.45	1.75	H	0.55	REF.
C	0.70	0.90	J	0.08	0.20
D	0.60	0.90	K	-	-
E	0.90	1.10	L	0.50	TYP.
F	0.15	0.35	M	0.25	0.40



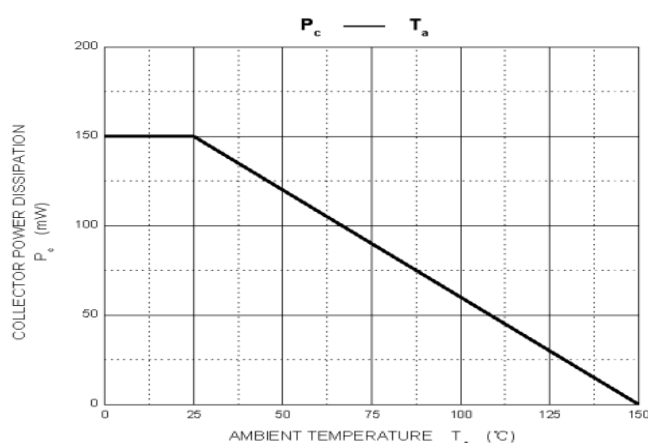
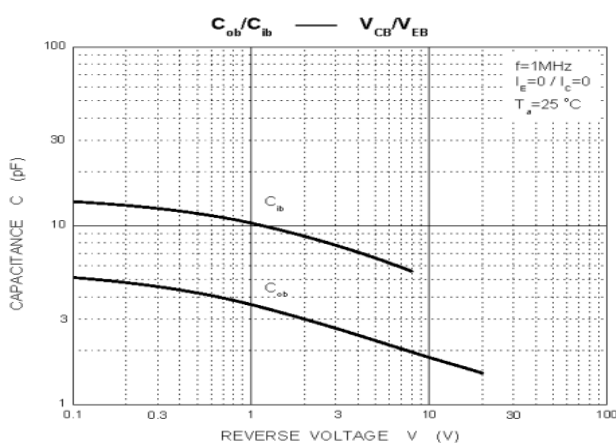
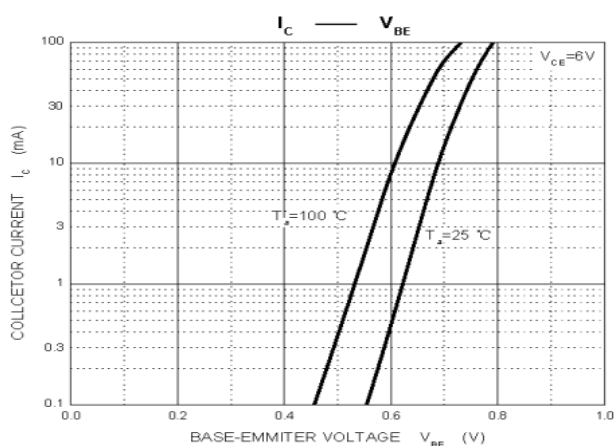
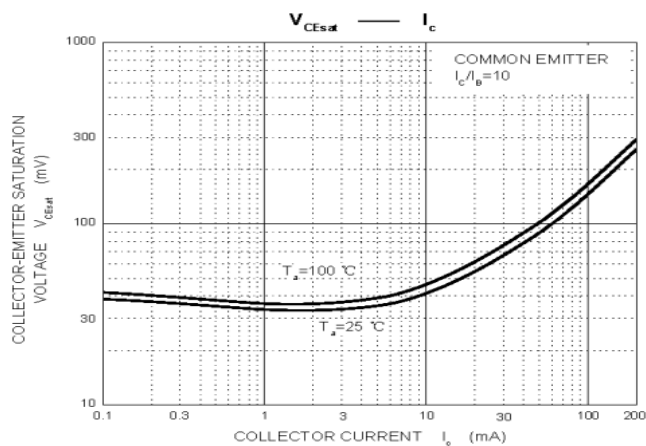
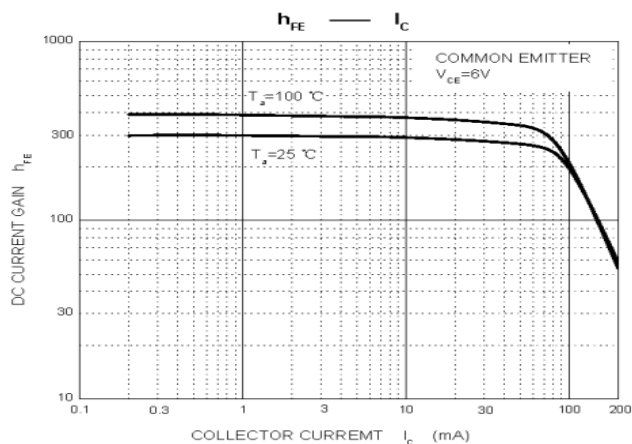
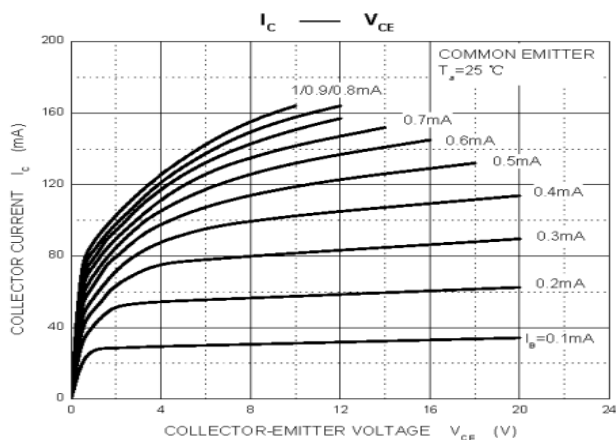
ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	
Emitter-Base Voltage	V_{EBO}	7	
Collector Current-Continuous	I_C	150	mA
Collector Power Dissipation	P_C	150	mW
Operating Junction & Storage Temperature Range	T_J, T_{STG}	150, -55~150	$^\circ\text{C}$

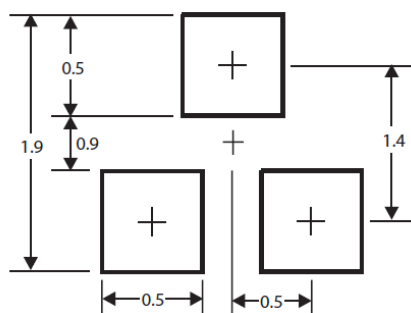
ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	60	-	-	V	$I_C=50\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	50	-	-		$I_C=1\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	7	-	-		$I_E=50\mu\text{A}, I_C=0$
Collector Cut-off Current	I_{CBO}	-	-	0.1	μA	$V_{CB}=60\text{V}, I_E=0$
Emitter Cut-off Current	I_{EBO}	-	-	0.1	μA	$V_{EB}=7\text{V}, I_C=0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.4	V	$I_C=50\text{mA}, I_B=5\text{mA}$
DC Current Gain	h_{FE}	180	-	390		$V_{CE}=6\text{V}, I_C=1\text{mA}$
Transition Frequency	f_T	-	180	-	MHz	$V_{CE}=12\text{V}, I_C=2\text{mA}, f=100\text{MHz}$
Collector Output Capacitance	C_{ob}	-	-	3.5	pF	$V_{CB}=12\text{V}, I_E=0, f=1\text{MHz}$

CHARACTERISTIC CURVES



Mounting Pad Layout



*Dimensions in millimeters