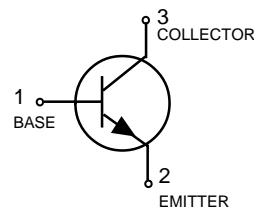
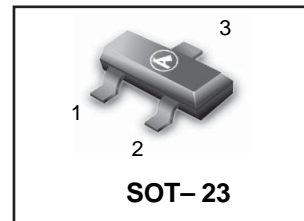


General Purpose Transistors

Pb-Free package is available

DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
L2SC1623QLT1G	L5	3000/Tape&Reel
L2SC1623QLT3G	L5	10000/Tape&Reel
L2SC1623RLT1G	L6	3000/Tape&Reel
L2SC1623RLT3G	L6	10000/Tape&Reel
L2SC1623SLT1G	L7	3000/Tape&Reel
L2SC1623SLT3G	L7	10000/Tape&Reel



MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	50	V
Collector-Base Voltage	V_{CBO}	60	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector current-continuoun	I_C	150	mAdc

THERMAL CHARATEERISTICS

Characteristic	Symbol	Max	Unit
Total Device Dissipation FR-5 Board, (1) $T_A=25^\circ\text{C}$ Derate above 25°C	P_D	225 1.8	mW mW/ $^\circ\text{C}$
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	556	$^\circ\text{C}/\text{W}$
Total Device Dissipation Alumina Substrate, (2) $T_A=25^\circ\text{C}$ Derate above 25°C	P_D	300 2.4	mW mW/ $^\circ\text{C}$
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	417	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature	T_j, T_{stg}	-55 to +150	$^\circ\text{C}$

DEVICE MARKING

L2SC1623QLT1G=L5 L2SC1623RLT1G=L6 L2SC1623SLT1G=L7

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

Characteristic	Symbol	Min	Typ	Max	Unit
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OFF CHARACTERISTICS

Collector Cutoff Current ($V_{CB}=60\text{V}$)	I_{CBO}	-	-	0.1	μA
Emitter Cutoff Current ($V_{BE}=5\text{V}$)	I_{EBO}	-	-	0.1	μA

ON CHARACTERISTICS

DC Current Gain ($I_C=1.0mA, V_{CE}=6V$)	h_{FE}	120	-	560	
Collector-Emitter Saturation Voltage ($I_C=100mA, I_B=10mA$)	$V_{CE(sat)}$	-	0.15	0.3	V
Base-Emitter Saturation Voltage ($I_C=100mA, I_B=10mA$)	$V_{BE(sat)}$	-	0.86	1.0	V
Base -Emitter On Voltage ($I_C=1mA, V_{CE}=6.0V$)	V_{BE}	0.55	0.62	0.65	V

SMALL-SIGNAL CHARACTERISTICS

Current-Gain-Bandwidth Product ($V_{CE}=6.0V, I_E=-10mA$)	F_t	-	250	-	MHz
Output Capacitance($V_{CE}=6V, I_E=0, f=1.0MHz$)	C_{ob}	-	3	-	Pf

h_{FE} Values are classified as follows

NOTE:

*	Q	R	S
h_{FE}	120~270	180~390	270~560