

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

FEATURES

- High Voltage and High Current
- Excellent h_{FE} Linearity
- Complementary to 2SC4738-C

CLASSIFICATION OF h_{FE}

Product-Rank	2SA1832-GR-C
Range	200~400
Marking	SG

PACKAGE INFORMATION

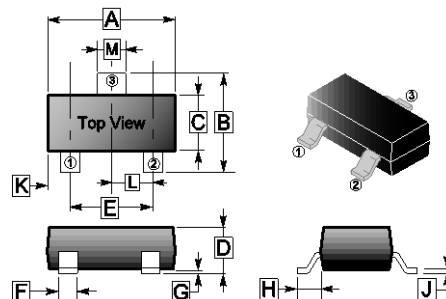
Package	MPQ	Leader Size
SOT-523	3K	7 inch

ORDER INFORMATION

Part Number	Type
2SA1832-□□-C	Lead (Pb)-free and Halogen-free

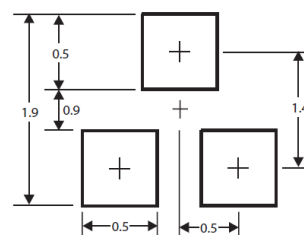
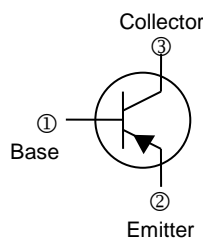
*□= h_{FE} Mark

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

Mounting Pad Layout



*Dimensions in millimeters

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

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V_{CB0}	-50	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current-Continuous	I_C	-150	mA
Collector Power Dissipation	P_C	100	mW
Thermal Resistance Junction-Ambient	$R_{\theta JA}$	125	$^\circ\text{C}/\text{W}$
Junction & Storage Temperature	T_J, T_{STG}	-55~125	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CB0}$	-50	-	-	V	$I_C = -100\mu\text{A}, I_E = 0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-50	-	-	V	$I_C = -1\text{mA}, I_B = 0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-	-	V	$I_E = -100\mu\text{A}, I_C = 0$
Collector Cut-off Current	I_{CB0}	-	-	-100	nA	$V_{CB} = -50\text{V}, I_E = 0$
Emitter Cut-off Current	I_{EBO}	-	-	-100	nA	$V_{EB} = -5\text{V}, I_C = 0$
DC Current Gain	h_{FE}	200	-	400		$V_{CE} = -6\text{V}, I_C = -2\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-0.3	V	$I_C = -100\text{mA}, I_B = -10\text{mA}$
Transition Frequency	f_T	80	-	-	MHZ	$V_{CE} = -10\text{V}, I_C = -1\text{mA}$
Collector Output Capacitance	C_{ob}	-	4	-	pF	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$

CHARACTERISTICS CURVE

