Elektronische Bauelemente

2SA1585

-2A, -20V

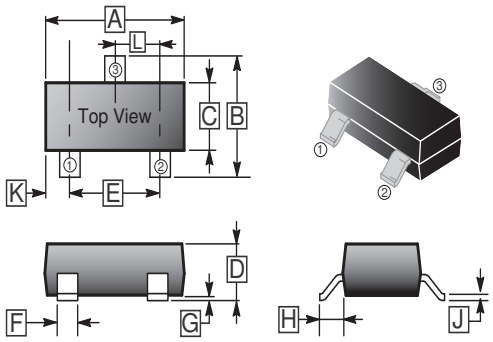
PNP Silicon General Purpose Transistor

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

FEATURES

- Low $V_{CE(sat)}$
- Excellent DC current gain characteristics.
  Power Dissipation

SOT-23



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	0	0.18
B	2.10	3.00	H	0.55 REF.	
C	1.20	1.80	J	0.08	0.26
D	0.89	1.30	K	0.6 REF.	
E	1.70	2.30	L	0.95 TYP.	
F	0.30	0.50			

CLASSIFICATION OF h_{FE}

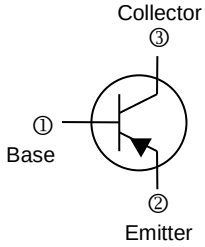
Product-Rank	2SA1585-R
Range	180~390
Marking	AER

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-23	3K	7 inch

ORDER INFORMATION

Part Number	Type
2SA1585-R	Lead (Pb)-free
2SA1585-R-C	Lead (Pb)-free and Halogen-free



ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	-20	V
Collector to Emitter Voltage	V_{CEO}	-20	
Emitter to Base Voltage	V_{EBO}	-6	
Collector Current-Continuous	I_C	-2	A
Collector Power Dissipation	P_C	350	mW
Junction & Storage Temperature	T_J, T_{STG}	150, -55~150	℃

ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-20	-	-	V	I_C= -50μA, I_E=0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-20	-	-		I_C= -1mA, I_B=0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-6	-	-		I_E= -50μA, I_C=0
Collector Cut-off Current	I_{CBO}	-	-	-0.1	μA	V_{CB}= -20V, I_E=0
Emitter Cut-off Current	I_{EBO}	-	-	-0.1		V_{EB}= -5V, I_C=0
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-0.5	V	I_C= -2A, I_B= -0.1A
DC Current Gain	h_{FE}	180	-	390		V_{CE}= -2V, I_C= -0.1A
Transition Frequency	f_T	-	240	-	MHz	V_{CE}= -2V, I_C= -0.5A, f=100MHz

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TYPICAL CHARACTERISTIC