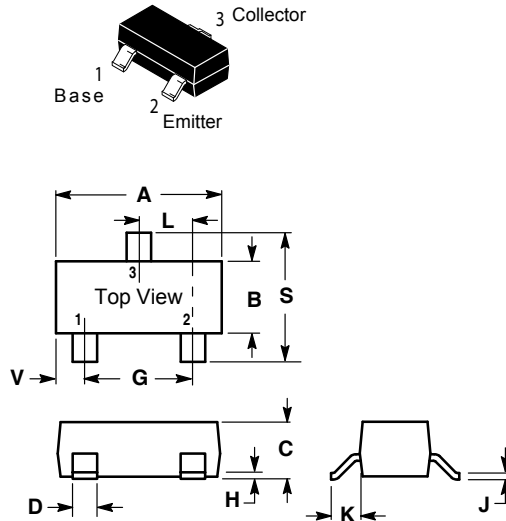


A suffix of "-C" specifies halogen & lead-free

FEATURES

- *Power Dissipation
PCM: 150 mW (Tamb=25°C)
- *Collector Current
ICM: 150 mA
- *Collector-Base Voltage
V(BR)CBO: 60 V
- *Operating and Storage Junction Temperature Range
TJ, TSTG: -55~+150°C
- *RoHS Compliant Product



SOT-23		
Dim	Min	Max
A	2.800	3.040
B	1.200	1.400
C	0.890	1.110
D	0.370	0.500
G	1.780	2.040
H	0.013	0.100
J	0.085	0.177
K	0.450	0.600
L	0.890	1.020
S	2.100	2.500
V	0.450	0.600
All Dimension in mm		

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V(BR)CBO	IC= 100µA, IE=0	60			V
Collector-emitter breakdown voltage	V(BR)CEO	IC=1mA, IB=0	50			V
Emitter-base breakdown voltage	V(BR)EBO	IE= 100µA, IC=0	5			V
Collector cut-off current	ICBO	VCB= 60 V, IE=0			0.1	µA
Emitter cut-off current	IEBO	VEB=5V, IC=0			0.1	µA
DC current gain	hFE	VCE=6V, IC=2mA	70		700	
Collector-emitter saturation voltage	VCE(sat)	IC= 100mA, IB=10mA		0.1	0.25	V
Transition frequency	fT	VCE=10V, IC= 1mA	80			MHz
Output capacitance	Cob	VCB=10V, IE=0, f=1 MHz		2.0	3.5	pF
Noise Figure	NF	VCE=6V, IC=0.1mA, f=1kHz, Rg=10kΩ		1.0	10	dB

CLASSIFICATION OF hFE

Rank	O	Y	GR	BL
Range	70-140	120-240	200-400	350-700
Marking	LO	LY	LG	LL