

General Purpose Transistors NPN Silicon

Description

We declare that the material of product compliance with

RoHS requirements

Mechanical Data

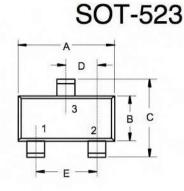
- Case: SOT-523 Molded plastic
- Epoxy: UL94V-O rate flame retardant

Packing & Order Information

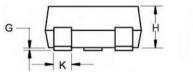
3,000/Reel

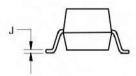






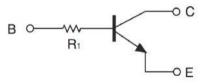
1. Base 2. Emitter 3. Collector





		DIMEN	ISIONS		
	INCHES		MM		
DIM [MIN	MAX	MIN	MAX	NOTE
A	.059	.067	1.50	1.70	
в	.030	.033	0.75	0.85	
C	.057	.069	1.45	1.75	
D	.020 Nominal		0.50Nom	inal	
E	.035	.043	0.90	1.10	·
G	.000	.004	.000	.100	
Н	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	

Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Absolute maximum ratings (Ta=25°C)				
Symbol	Parameter	Value	Unit	
Vсво	Collector-Base Voltage	60	V	
VCEO	Collector-Emitter Voltage	50	V	
VEBO	Emitter-Base Voltage	7	V	
IC	Collector Current	0.15	А	
Pc	Collector Dissipation	0.15	W	
Tj	Junction Temperature	150	°C	
Tstg	Storage Temperature Range	-55 to +150	°C	



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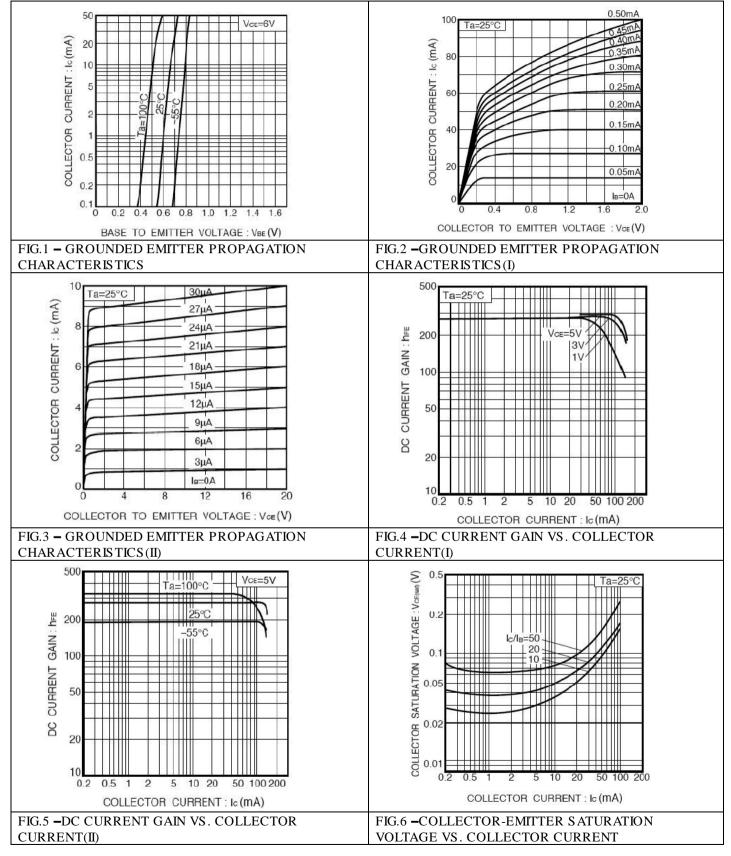
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified						
Symbol	Parameter	Test Conditions	MIN	ТҮР	MAX	UNIT
BVCBO	Collector-base breakdown voltage	$I_C = 50 \mu A$	60			v
BVCEO	Collector-emitter breakdown voltage	$I_C = 1 mA$	50			V
BV_{EBO}	Emitter-base breakdown voltage	$I_{\rm E}=50\mu A$	7			v
I _{CBO}	Collector cut-off current	$V_{CB} = 60 V$			0.1	μA
Iebo	Emitter cut-off current	$V_{EB} = 7 V$			0.1	μA
hfe	DC current gain	$V_{CE} = 6 V$, $I_C = 1 mA$	120		560	
V _{CE(sat)}	Collector-emitter saturation voltage	$I_C/I_B = 50 \ mA \ / \ 5 \ mA$			0.5	V
f _T	Transition frequency	$V_{CE} = 12 \text{ V}, \text{ I}_E = 2 \text{ mA}$ $f = 30 \text{MHz}$		180		MHz
C_{ob}	Collector output capacitance	$V_{CB} = 12 V$, $I_E = 0 A$ f = 1.0MHz		2.0	3.5	pF

hFE values are classified as follows:					
Item	Q	R	S		
hFE	120-170	180-390	270-560		

ORDERING INFORMATION				
Device	Marking	Shipping		
2SC4617QT1G	BQ	3000 Tape & Reel		
2SC4617QT3G	BQ	10000 Tape & Reel		
2SC4617RT1G	BR	3000 Tape & Reel		
2SC4617RT3G	BR	10000 Tape & Reel		
2SC4617ST1G	BS	3000 Tape & Reel		
2SC4617ST3G	BS	10000 Tape & Reel		



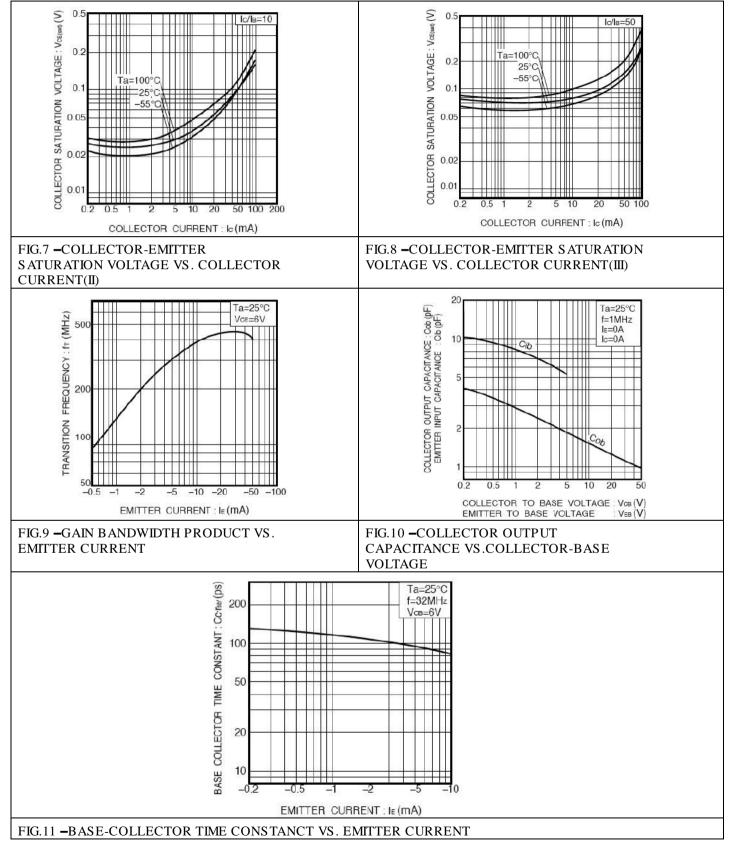
General Purpose Transistors NPN Silicon RATINGS AND CHARACTERISTIC CURVES





General Purpose Transistors NPN Silicon

RATINGS AND CHARACTERISTIC CURVES





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