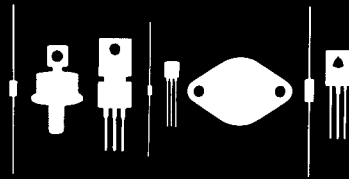


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145 Adams Avenue
Hauppauge, New York 11788



GES6014
GES6016

NPN SILICON TRANSISTOR

JEDEC TO-92 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR GES6014, GES6016 types are Silicon NPN Transistors manufactured by the epitaxial planar process designed for general purpose medium power amplifier and switching applications. The PNP complementary types are GES6015, GES6017 respectively.

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

	SYMBOL	GES6014	GES6016	UNIT
Collector-Base Voltage	V _{CB0}	70	70	V
Collector-Emitter Voltage	V _{CES}	70	70	V
Collector-Emitter Voltage	V _{CEO}	60	60	V
Emitter-Base Voltage	V _{EB0}	5.0	5.0	V
Collector Current	I _C	800	800	mA
Collector Current (PEAK)	I _{CM}	1500	1500	mA
Power Dissipation	P _D	625	625	mW
Power Dissipation ($T_C=25^\circ\text{C}$)	P _D	1.0	1.0	W
Operating and Storage Junction Temp.	T _J , T _{stg}	-65 TO +150		°C

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

SYMBOL	TEST CONDITIONS	GES6014		GES6016		UNIT
		MIN	MAX	MIN	MAX	
I _{CB0}	V _{CB} =25V		10		10	nA
I _{EB0}	V _{EB} =3.0V		20		20	nA
BV _{CB0}	I _C =100μA	70		70		V
BV _{CES}	I _C =100μA	70		70		V
BV _{CEO}	I _C =10mA	60		60		V
BV _{EBO}	I _E =100μA	5.0		5.0		V
V _{CE(SAT)}	I _C =100mA, I _B =10mA		0.150		0.150	V
V _{CE(SAT)}	I _C =500mA, I _B =50mA		0.500		0.500	V
V _{BE(SAT)}	I _C =100mA, I _B =10mA	0.70	0.88	0.70	0.88	V
V _{BE(SAT)}	I _C =500mA, I _B =50mA	0.80	1.0	0.80	1.0	V
V _{BE(ON)}	V _{CE} =5.0V, I _C =10mA	0.55	0.75	0.55	0.75	V
h _{FE}	V _{CE} =1.0V, I _C =100μA	45		70		
h _{FE}	V _{CE} =1.0V, I _C =10mA	100	300	200	500	
h _{FE}	V _{CE} =1.0V, I _C =100mA	85		170		
h _{FE}	V _{CE} =2.0V, I _C =500mA	20		20		
h _{fe}	V _{CE} =10V, I _E =1.0mA, f=1.0kHz	65	450	130	750	
h _{ie}	V _{CE} =10V, I _E =1.0mA, f=1.0kHz	1.5	12	2.5	20	kΩ
h _{oe}	V _{CE} =10V, I _E =1.0mA, f=1.0kHz		45		170	μmos
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz		10		10	pF
C _{ib}	V _{EB} =0.5V, I _C =0, f=1.0MHz		50		45	pF
f _T	V _{CE} =10V, I _E =10mA, f=30MHz	105	335	135	425	MHz
NF	V _{CE} =5.0V, I _E =100μA, BW=15.7kHz, R _s =5.0KΩ f=10Hz, to 10kHz		5.0		3.0	dB
t _{on}	V _{CC} =30V, I _{C(ON)} =150mA, I _{B1} =15mA, V _{BE(OFF)} =0		37TYP		37TYP	ns
t _{off}	V _{CC} =30V, I _{C(ON)} =150mA, I _{B1} =I _{B2} =15mA		400TYP		400TYP	ns



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- Package details
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- Custom product and package development

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1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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