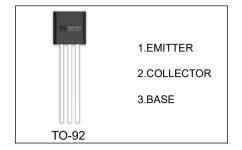


3DG3332 TRANSISTOR (NPN)

FEATURES

- High breakdown voltage
- Excellent h_{FE} linearity
- Large current capacity and wide ASO



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
3DG3332	TO-92	Bulk	1000pcs/Bag
3DG3332-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	180	V	
V _{CEO}	CollectorE-mittelVoltage	160	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current -Continuous	0.7	Α	
Pc	Collector Power Dissipation	0.625	W	
R _{0JA}	Thermal Resistance from Junction to Ambient	200	°C/W	
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃	



Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10μA,I _E =0	180			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	160			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =120V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V,I _C =0			0.1	μΑ
20	h _{FE(1)}	V _{CE} =5V, I _C =100mA	100		400	
DC current gain	h _{FE(2)}	V _{CE} =5V, I _C =10mA	80			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =250mA,I _B =25mA			0.4	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =250mA,I _B =25mA			1.2	V
Collector output capacitance	C _{ob}	V _{CB} =10V, f=1MHz		8		pF
Transition frequency	f _T	V _{CE} =10V,I _C =50mA		120		MHz
Turn-on Time	t _{on}	V _{CC} =100V,I _C =300mA, I _{B1} =-I _{B2} =15mA			0.05	μs
Storage Time	t _{stg}				1	μs
Fall Time	t _f	01 .02 .0			0.06	μs

CLASSIFICATION of $h_{\text{FE}(1)}$

Rank	R	S	Т
Range	100-200	140-280	200-400